

|     |       |       |       |       |       |       |       |       |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|
| 86  | 27364 | 92836 | 69428 | 61268 | 74982 | 46498 | 32764 | 31276 |
| 86  | 40932 | 70987 | 32123 | 49817 | 26346 | 81287 | 65491 | 87364 |
| 721 | 75654 | 55656 | 12737 | 72727 | 72727 | 91918 | 63473 | 67867 |
| 723 | 87629 | 37677 | 32612 | 53498 | 71296 | 28756 | 18276 | 98716 |
| 269 | 76329 | 74698 | 76857 | 98670 | 27601 | 56701 | 57601 | 73648 |
| 711 | 87364 | 87265 | 96710 | 27630 | 12673 | 84769 | 28743 | 98127 |
| 78  | 63298 | 75698 | 27465 | 87326 | 49876 | 28376 | 81273 | 98615 |
| 77  | 87432 | 74328 | 78674 | 29867 | 32867 | 67867 | 86786 | 43286 |
| 77  | 68768 | 68763 | 34234 | 34238 | 68768 | 62342 | 48273 | 48768 |
| 706 | 98432 | 32432 | 86743 | 43286 | 43286 | 43286 | 43286 | 43286 |
| 743 | 86743 | 86743 | 39867 | 32867 | 86743 | 43286 | 43286 | 43243 |
| 743 | 86743 | 86743 | 86743 | 86743 | 86743 | 86743 | 86743 | 86743 |
| 792 | 98798 | 98754 | 98754 | 98754 | 98754 | 29867 | 67543 | 67986 |
| 706 | 87698 | 69876 | 87698 | 69876 | 87612 | 12341 | 34867 | 86798 |
| 743 | 98298 | 65656 | 56756 | 56123 | 32143 | 14321 | 32143 | 14321 |
| 707 | 58765 | 76587 | 58765 | 76587 | 58765 | 76587 | 58765 | 76587 |

# Numbers & Oddities

*Edition #342 March 2026*

Editor: Ary Boender email: [udxf@udxf.nl](mailto:udxf@udxf.nl)

Numbers & Oddities <http://www.numbersoddities.nl>

"Numbers & Oddities" covers the fascinating world of Numbers Stations and other odd radio signals on shortwave.

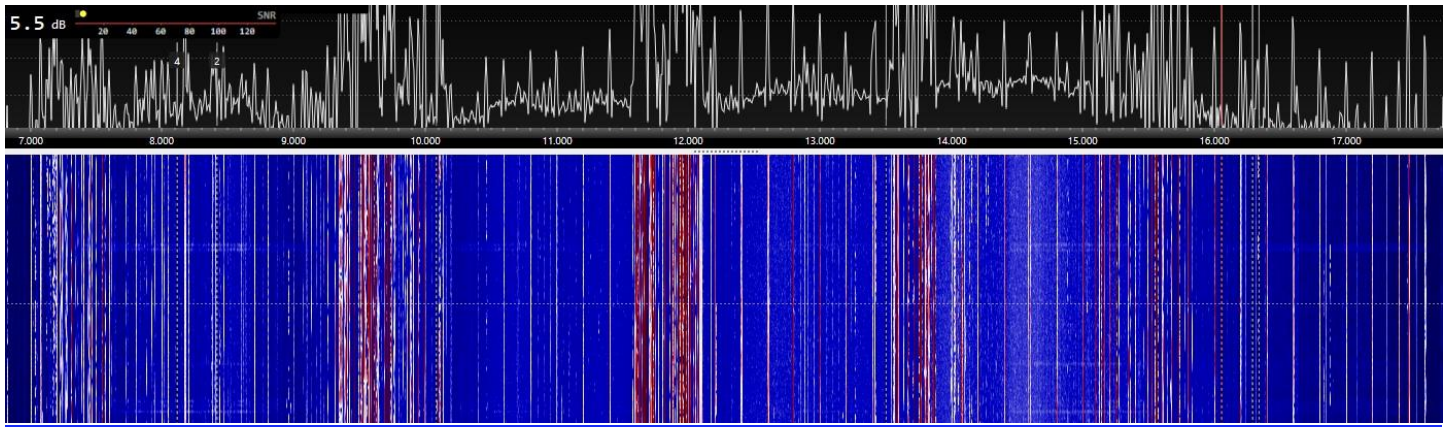


-. ..- -- -... . -.. ... .- -. -. --- -.. -.. .. - .. ...

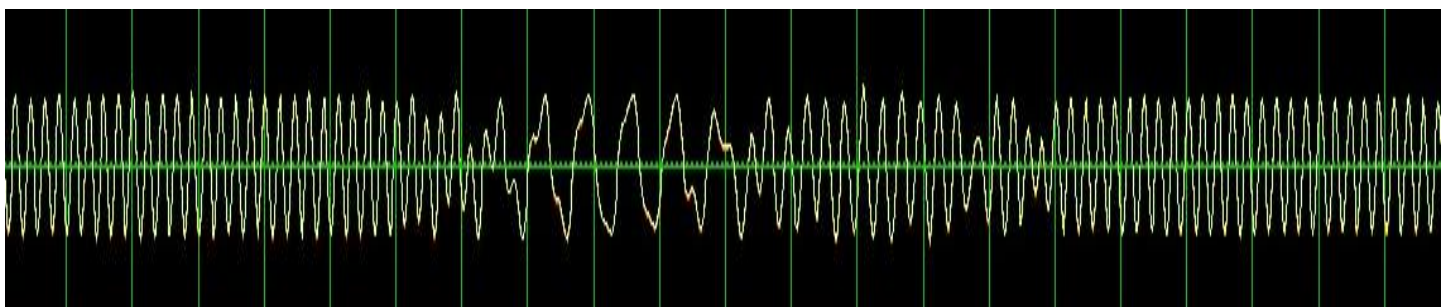


Numbers and Oddities

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## IT'S UDXF'S BIRTHDAY! CONGRATULATIONS !

*UDXF, the Utility Dxers Forum, was founded on March 28, 2006, as the successor to the renowned Worldwide Ute News Club (WUN).*

Another month has flown by, and spring has begun in Western Europe. We've wrapped up our review of March. The logs and detailed broadcast transcripts are, of course, included. This N&O is even later published than in the past months. There was so much to process. I received even more goodies after I wrapped up but it was too good to leave out. Additional logs are added separated after the other logs. I think it's worth the wait. Enjoy!

### March 2026 highlights

- The Polish 11 stations were down from 16-3, 1225 UTC to 17-03, 0810 UTC.
- Russian operator 6 could be heard on 1, 2, 3, 7, and 23 March with a substantial amount of test transmissions.
- On March 24 and 25, Russian operator 6 was active with its annual sporadic F01, F06, F06a, S06c, and E06 transmissions.
- M23 was very active in March with the well-known 0 and 5 combi messages, chats and it even sent normal 5-figure groups messages.
- The new Farsi numbers station (V32) was heavily jammed, often by two jammers at the same time. We have many transcripts in the V32 section, **NO AI translations !!!**

Journalists and news sites were tripping over each other in their search for information about V32. UDXF, N&O, Priyom, ENIGMA, and others have been flooded with requests for interviews and information. Many articles—some well-researched, others not—have been published; I won't list them here, but if you search the internet, you'll find them.

The current conflicts in Ukraine and the Middle East are generating a lot of intelligence news. I've listed a few interesting sites below. Please note that I have no affiliation with or preference for these websites.

[Intelnews](#)

[Intelligence Online](#)

[Aljazeera intelligence](#)

### New Rivet release

Rivet Build 92 has been released. This update features a lot of changes in decoding FSK modes, so please report any issues and bugs you find in this thread or on Github (link below). Here are the main changes:

#### Complete rewrite of FSK FFT routines

- Add support for 12khz sample rate in all FSK modes. This allows Rivet to admit KiwiSDR/OpenWebRX/etc. recordings without resampling, and improves decoding at some baud speeds.
- Fix Inverted mode in FSK modes
- Improve F06/F06a mode hot-switching

Full changelog, download and file hashes available on the Priyom repository on Github:

<https://github.com/priyom/Rivet/releases/tag/v0.92.0>

Many thanks to the Priyom Team and all other contributors.



## VOICE STATIONS

### E06

**9951/6792 kHz, 28-02, 1600/1630 UTC**

**13921/12089 kHz, 01-03, 0730/0800 UTC**

480 937 45

13576 13561 24641 61907 07687 41470 96287 85286 73406 14357  
05497 85302 60489 01586 64607 96023 58721 04278 14757 38452  
03649 56201 40370 35672 46476 07171 59827 59238 86396 20598  
13968 47898 60615 76973 34749 89210 42785 08727 12386 43529  
03950 56848 43961 05918 86701  
937 45 00000

**12211/9481 kHz, 07-03, 1600/1630 UTC**

**13921/12089 kHz, 08-03, 0730/0800 UTC**

480 237 41

67027 84542 14915 19316 54014 47209 79531 29073 97209 70518  
65785 13190 67916 94619 06595 86705 36543 83638 91097 94505  
04359 60461 90461 53723 18013 12673 43675 70318 02353 84848  
03138 61202 43138 02939 05859 78764 65691 27680 69041 60102  
97539  
237 41 00000

**12211/9481 kHz, 14-03, 1600/1630 UTC**

**13921/12089 kHz, 15-03, 0730/0800 UTC**

480 732 45

38538 73780 56231 90743 40341 31710 47410 74548 57096 70160  
16270 67140 61019 27596 69040 57501 76541 47152 82973 94303  
08901 57845 52406 56708 64948 65148 78984 62438 84271 71754  
58647 39070 34674 56184 40107 78375 27654 90202 80583 48518  
72435 52163 59574 14860 49263  
732 45 00000

**12211/9481 kHz, 21-03, 1600/1630 UTC**

**13921/12089 kHz, 22-03, 0730/0800 UTC**

480 136 48

59725 05070 27403 50543 67862 41691 09248 68165 85065 52968  
74346 32893 06836 64525 30851 69818 23631 47239 52695 15419  
23058 40479 94240 73984 40698 05760 37098 29274 18571 75345  
35689 17892 19176 81918 92752 45356 29451 48206 72896 98749  
32650 56181 51705 82364 40135 85364 76943 30428  
136 48 00000

**12211/9481 kHz, 28-03, 1600/1630 UTC**

**13921/12089 kHz, 29-03, 0730/0800 UTC**

480 196 43

68957 59592 24085 95072 06570 27036 97642 82917 78038 60286  
32067 93835 36436 69147 35631 01487 73142 03586 58050 30319  
43065 41539 46321 07347 39897 62543 30912 79080 29036 07608  
31752 91983 37080 08248 04752 76760 76283 34739 65417 05086  
01434 31348 37426  
196 43 00000

14571/15851/17451, 1500/1520/1540 UTC

**14571/15851/17451 kHz, 03-03/06-03, 1500/1520/1540 UTC**

584 584 584 1 883 131 883 131  
 90158 36417 48298 41455 72064 50245 42517 25819 99171 86987  
 22752 56365 16053 22230 86536 18166 70557 72772 74604 16944  
 80631 09467 35399 00635 22662 50234 01107 01016 74870 55554  
 55731 82085 52583 29550 53442 02729 06975 23786 17110 13133  
 32504 29826 14564 78995 43824 32741 59668 37274 66551 78687  
 85427 69576 10679 56945 54958 02807 42190 68307 52535 70193  
 28793 00326 37841 76538 37811 22156 53218 52378 01157 69554  
 90871 99269 33906 44317 96703 41609 42589 98036 95769 06078  
 86651 92524 01715 25178 95547 10830 99198 76659 36938 87787  
 91431 64308 89866 88081 33719 41243 19696 90671 10288 27103  
 20905 27774 05947 12445 97853 70204 87865 27273 27437 89325  
 83412 52289 92847 96305 14314 77572 77951 13365 06179 32037  
 34228 24170 10641 53387 75837 07086 97603 04395 18881 23545  
 29311 000 000

**14571/15851/17451 kHz, 17-03/20-03, 1500/1520/1540 UTC**

584 584 584 1 2036 190 2036 190  
 07300 19759 14874 05157 99594 57847 40856 53703 35225 09643  
 52883 25334 14746 66980 49905 61387 42988 82041 60200 88363  
 38479 99675 08037 70046 26833 22440 74169 40460 35665 92870  
 05196 09038 28623 85502 48535 88153 63536 16312 17538 19212  
 15808 44020 47338 60330 90511 03245 70382 54124 90552 36505  
 42679 80289 01175 68590 58548 70241 91566 03834 62746 06653  
 48381 70956 27973 69179 65475 18435 51750 43210 48578 84911  
 68711 35031 90954 48847 76411 68916 01644 30273 04524 04376  
 57391 94525 85930 11073 93030 46911 75834 94183 49826 56838  
 79955 95980 41121 89914 59494 12116 08852 78691 42462 35379  
 71058 73900 63971 07229 71700 68917 53692 01323 71464 59411  
 60730 32143 82538 69412 86174 26833 70862 14004 58015 62169  
 67666 57381 42190 32232 56563 95060 86481 95517 84644 08433  
 31305 34905 53821 16651 64040 15723 25093 61164 13103 43667  
 14606 23231 49665 47823 48194 03607 10642 04780 49435 57777  
 49859 50315 42763 19164 29110 90247 34889 11186 13204 15901  
 10459 82621 69392 24895 25841 81122 52542 52511 41260 74424  
 19293 72718 18881 64731 55994 73140 63881 95498 71721 14453  
 96727 31986 81540 31572 53095 68093 66106 72473 54587 33146  
 000 000

**14571/15851/17451 kHz, 31-03, 1500/1520/1540 UTC**

584 584 584 1 917 67 917 67  
 48359 13832 72733 92128 86611 25871 32768 16168 29356 07946  
 86847 64617 24809 11263 43979 88912 11264 23530 73329 09043  
 32542 63109 98337 13217 72048 28404 57661 89969 61442 48217  
 25619 20854 41120 95076 12099 55769 43385 41679 26022 32052  
 47189 82213 78877 80877 82251 71838 98700 76877 05004 63607  
 12097 27971 71063 08992 46837 85479 39976 63579 46957 43174  
 67233 23550 39904 92615 33736 11788 98748 000 000

18192/17425/15978, 1000/1020/1040 UTC

**18192/17425/15978 kHz, 12-03/14-03, 1000/1020/1040 UTC**

149 149 149 1 888 200 888 200  
 30942 62222 38837 68593 98576 05795 09468 96570 71101 17287  
 24887 92931 71455 29542 64184 04776 38401 19672 44650 21695  
 96493 96895 24874 60823 50978 97851 14464 67551 40439 54605  
 95364 82981 46306 34777 06575 61281 37642 19502 21582 17577

04640 94461 82990 39824 42098 67432 12165 54988 51432 64788  
28258 84242 04126 58180 78640 89502 85027 13084 68265 15077  
17384 42434 63330 03434 62588 31469 58808 45533 06201 79952  
49448 41240 00552 11576 33458 11831 28990 00511 71977 22023  
99191 53639 85299 53471 56542 88454 99594 70816 96753 65975  
65990 30780 31042 41490 78035 72852 58345 55875 44828 63997  
46738 35219 50430 09482 27923 71427 80018 94530 10897 78738  
70117 64778 65776 79664 39024 90510 40185 93785 08709 20837  
61914 90627 88740 47256 45312 87274 67112 39735 63343 26594  
31536 69119 31141 35160 90005 46856 33262 45705 10496 49492  
90966 67524 82389 99740 06371 59090 24717 93487 19068 77051  
74309 93917 93866 29887 16702 07598 79707 20826 58457 89660  
38746 67514 37678 30600 77876 20191 67564 95725 61097 79400  
44827 27410 75432 67849 76820 24709 35238 14756 93011 96651  
01435 60713 16950 75303 76253 26988 62576 83361 19390 10984  
02771 97497 37237 75073 81313 06604 43865 69324 09475 15018

**18192/17425/15978 kHz, 26-03/28-03, 1000/1020/1040 UTC**

149 149 149 1 926 175 926 175  
53229 16951 66408 20134 41804 03566 20825 59147 55119 09741  
14956 13779 35408 56364 89187 44115 30376 57881 32594 93928  
62253 31422 21492 16807 05167 82929 96968 14635 85705 51827  
59907 95702 80421 87829 87399 41369 29770 66695 72660 63287  
20243 34637 42526 68272 35044 32017 69371 99942 69365 88802  
93519 34498 71622 05966 83735 69205 43391 57856 49107 58804  
57642 55883 58600 51154 31933 80731 06403 52456 85341 93329  
88247 53335 72523 05118 96600 75435 60342 46756 78253 31350  
13045 74431 66427 67040 22377 41328 64964 45316 20014 36926  
44700 47071 43355 96266 36543 58183 09273 32964 00973 34867  
09220 61500 11316 99313 42501 17348 10691 55813 21285 69175  
25875 10912 53528 71014 18089 22836 83420 88117 99701 33552  
62627 10331 86105 84742 53512 82512 90858 32307 69302 65954  
88731 35454 15063 20331 85367 49752 74492 97891 53743 41056  
22633 25719 26051 91987 22435 56052 01839 24500 22430 74173  
77896 75532 65641 08870 14967 88968 37341 26513 48776 79428  
42967 87749 79806 69775 40845 00887 13944 99794 07926 85946  
33380 70132 77774 70300 69924 000 000

**E11a**

**5082 kHz, 26-02, 2000 UTC**

**5737 kHz, 01-03, 2000 UTC**

527/35 Attention

69546 19118 75352 33623 02733 78042 98365 15974 10081 64507  
24004 77744 59180 34728 93656 91968 17227 67737 33015 97662  
11336 28958 38414 62959 26702 17279 13711 46993 26918 03820  
00606 43402 93792 33688 21743  
Attention (message repeated) Out

**13470 kHz, 03-03/05-03, 0645 UTC**

519/33 Attention

02720 64639 55661 57380 76545 73735 40789 11785 52365 70373  
69825 12174 71396 88706 30976 89913 11165 04997 66563 36127  
35704 14768 72082 95381 07221 04105 40421 07842 74988 57111  
29176 15834 71010  
Attention (message repeated) Out



**22995 kHz, 03-03/05-03, 0745 UTC**

221/37 Attention

81890 47261 15128 52196 48945 73910 48504 74420 31667 49964  
68667 93151 46333 21185 01450 37217 12755 10919 12690 52701  
83670 96136 21866 08716 39801 36989 23641 93330 23694 22151  
42388 51787 19308 72456 00603 56756 47876

Attention (message repeated) Out

**9951 kHz, 03-03, 1000 UTC**

306/22 Attention

57104 86262 01732 20232 62506 86353 95991 67081 77465 58531  
77824 00685 36716 68193 82913 41473 44125 27264 18621 48833  
75363 50923

Attention (message repeated) Out

**17410 kHz, 04-03, 0745 UTC**

**17410 kHz, 04-03, 1020 UTC**

340/35 Attention

00007 23571 36805 69565 53812 29729 30154 81049 87981 40032  
75252 93763 15636 73305 12183 13189 25680 64273 29424 02592  
16722 80692 05227 11009 06105 30686 72590 25948 96667 34195  
13359 48047 09582 53418 71553

Attention (message repeated) Out

**6923 kHz, 04-03/06-03, 1715 UTC**

974/31 Attention

76569 93189 66239 19552 08204 59416 97763 98303 75564 82853  
00446 79542 26540 78673 62241 19024 95341 58873 17719 89092  
45244 83828 87310 19836 40272 60168 95966 63981 62777 87793  
09915

Attention (message repeated) Out

**19515 kHz, 09-03/11-03, 0715 UTC**

755/32 Attention

56273 66551 20283 59667 53666 89623 96715 87816 94670 94442  
09342 97259 42010 51519 29912 24908 32049 80948 25994 75727  
86502 12244 32072 02048 22981 50958 47979 92061 39529 37903  
29716 17024

Attention (message repeated) Out

**8180 kHz, 10-03/13-03, 0700 UTC**

571/40 Attention

82402 56488 50617 76025 90788 73115 00665 39412 97491 18436  
87278 00730 73896 28913 45666 66296 60927 30616 63494 73490  
16019 31780 47657 39729 20833 83478 94527 00652 96574 61370  
98599 87623 58281 68338 74356 66337 50860 70846 67147 18137

Attention (message repeated) Out

**19184 kHz, 10-03/11-03, 0930 UTC**

136/35 Attention

26998 32510 39669 99918 58367 31843 07716 18085 39559 72284  
17309 73587 98592 08693 17586 69750 74437 83892 32579 77506  
89328 30487 78936 97938 36481 90022 61246 23200 63064 69810  
89927 77850 91550 26883 89504

Attention (message repeated) Out

**9446 kHz, 12-03/13-03, 0720 UTC**

839 Attention

69363 02108 38292 45797 98604 83405 05442 11888 45900 75936  
06550 01743 64114 14850 82155 22666 70494 31368 34563 08045  
59702 85863 89746 04335 31903 59608 97262 08380 00603 77615  
20946 88627 79314 11436 43490 12182 20756 57270 34754

Attention (message repeated) Out

**11116 kHz, 13-03/15-03, 1815 UTC**

925/35 Attention

94074 57827 37611 51308 33644 44372 19711 58571 94954 67285  
32986 23193 36044 97813 77273 09560 01797 02512 65591 11832  
88199 91796 79473 86951 66751 70504 50964 98475 02095 51300  
26161 09812 77048 66968 56430  
Attention (message repeated) Out

**8530 kHz, 13-03/15-03, 1910 UTC**

618/32 Attention

69826 47228 46158 85559 20139 10763 91560 57311 78952 68000  
14518 29258 49766 25113 69002 11984 92839 35183 19853 37794  
57781 46549 17620 08263 55697 35771 69033 03884 57848 63715  
14412 10224  
Attention (message repeated) Out

**4505 kHz, 14-03/15-03, 1645 UTC**

369/38 Attention

21846 65316 17360 98445 08613 96942 02875 42769 17643 90891  
27137 38805 51059 03446 12729 38472 48808 58980 94765 25606  
04155 27589 82920 44604 75452 69879 71643 86081 13330 19462  
39021 89027 01156 09106 15279 84303 46400 86457  
Attention (message repeated) Out

**10213 kHz, 16-03, 0745 UTC / 10330 kHz, 19-03, 1530 UTC**

260/40 Attention

44168 73020 87387 71092 45364 01767 01140 46897 93070 98603  
27849 82158 65727 14888 34379 51172 26239 68934 32355 64659  
91479 68733 22846 44623 23893 78089 94514 49909 00561 22962  
42853 02461 14989 81324 64245 82171 28473 79662 81723 81788  
Attention (message repeated) Out

**12202 kHz, 16-03/18-03, 0845 UTC**

710/38 Attention

47424 67562 04475 80556 32217 54963 82890 84739 41386 27649  
09703 77433 91220 13872 73646 32496 75675 15670 12346 30388  
21000 07534 07819 71580 64121 61268 83850 73505 77924 49805  
53915 65714 54877 82315 00677 93544 47701 68269  
Attention (message repeated) Out

**13117 kHz, 16-03/18-03, 0900 UTC**

536/33 Attention

59654 83368 79338 53316 55496 84860 70406 02877 64387 00036  
82625 77935 46203 25490 92119 08387 86089 55164 86507 77171  
19186 58463 94633 01305 70731 23298 19391 76906 44174 95468  
53358 31512 26365  
Attention (message repeated) Out

**9399 kHz, 17-03, 1205 UTC**

463/36 Attention

19660 34152 52059 60685 62075 34784 81160 54953 93985 28757  
72744 32546 38708 75471 90904 92740 94747 09163 20399 75353  
81062 61922 60037 26008 49034 68628 23989 29190 61494 34636  
27297 00260 56761 15542 86977 54885  
Attention (message repeated) Out

**14972 kHz, 17-03/21-03, 1430 UJTC**

918/35 Attention

72482 68992 66627 59986 80123 24660 70763 36686 24553 89269  
26771 60879 69324 55444 18561 06018 09485 33506 28080 59611  
42631 24246 15535 35122 18156 86906 88902 34080 93854 93568  
85113 63393 02521 31743 90623  
Attention (message repeated) Out



**9399 kHz, 18-03, 1205 UTC**

463/36 Attention

19660 34152 52059 60685 62075 34784 81160 54953 93985 28757  
72744 32546 38708 75471 90904 92740 94747 09163 20399 75353  
81062 61922 60037 26008 49034 68628 23989 29190 61494 34636  
27297 00260 56761 15542 86977 54885

Attention (message repeated) Out

**5371 kHz, 17-03/19-03, 1300 UTC**

314/33 Attention

63992 48350 75600 37176 19492 53084 91125 70703 47622 74752  
81420 93986 34194 23403 39342 31558 09255 53170 62996 31932  
23218 87583 69733 87722 28631 13158 19817 54664 42355 56471  
35227 77019 97105

Attention (message repeated) Out

**5737 kHz, 19-03/22-03, 2000 UTC**

525/32 Attention

12904 99895 55020 58388 39252 79408 66224 07606 15129 19337  
09760 36385 81723 50411 52379 46830 32039 44259 06413 94298  
37554 88240 18249 74774 58180 97725 35753 81803 26973 86044  
29575 51255

Attention (message repeated) Out

**8423 kHz, 19-03/20-03, 0720 UTC**

435/34 Attention

38477 00717 55265 93827 36115 81995 96630 26670 90899 97307  
79230 96857 95676 19613 68099 21426 51720 10847 86962 19822  
02688 23506 38123 49829 39965 34940 74423 35019 73346 24226  
11178 62439 96390 63480

Attention (message repeated) Out

**8680 kHz, 20-03/22-03, 0600 UTC**

359/35 Attention

07373 82579 06705 74504 84530 19465 06095 96695 05793 71889  
44450 88484 40821 86816 75185 40460 90939 50641 98096 79038  
40282 25879 68287 87231 25096 04280 90498 48269 88299 93289  
22262 40987 13170 23676 48628

Attention (message repeated) Out

**20170 kHz, 23-03, 0830 UTC. Not repeated on 27-03.**

184/36 Attention

89200 02870 67999 90192 89722 51116 92239 26985 56791 16626  
05518 41740 45529 57840 18461 78844 93759 84909 27491 11649  
01632 15357 37232 35480 25562 00650 43076 50984 51595 85907  
93783 41494 86243 20688 40229 06960

Attention (message repeated) Out

**12385 kHz, 23-03, 1045 UTC**

697/36 Attention

26287 43338 03144 30040 01386 11316 14102 02082 74539 53465  
28308 09055 68475 20305 65899 59367 60224 13518 71318 31766  
19666 29254 37463 43728 06148 03760 45257 05956 20708 24757  
90639 74695 37017 45088 45911 50741

Attention (message repeated) Out

**13470 kHz, 23-03, 1745 UTC. Not repeated on 29-03**

242/31 Attention

25534 47959 15979 19286 58950 99035 32247 91921 50364 51039  
08067 40920 62479 17865 97030 41091 71918 87900 40462 79067  
08809 34687 13482 25096 20679 09980 65470 56826 00569 01140  
09737

Attention (message repeated) Out

**14666 kHz, 24-03/27-03, 0715 UTC**

636/37 Attention

11060 30047 99766 59184 65756 52590 93273 61395 44533 00525  
73318 41614 08246 03829 55136 95717 20736 64125 74385 32367  
10570 61677 75746 71693 51096 58232 62096 30798 20172 43791  
68434 88063 40841 54685 80668 70486 72992

Attention (message repeated) Out

**18168 kHz, 24-03/26-03, 0845 UTC**

154/36 Attention

67106 13501 10811 24847 14196 09017 87942 11756 44086 06225  
07334 65258 84614 47470 79107 94406 44878 82066 58785 38154  
25266 55401 25101 11558 61239 40625 27562 53221 45543 57343  
54419 73695 05572 66477 34334 44251

Attention (message repeated) Out

**12530 kHz, 24-03/26-03, 1230 UTC**

333/39 Attention

74763 09889 00717 50356 61105 00742 31213 34300 38989 42285  
34323 44897 79937 37389 59398 03772 11214 99505 55493 49078  
77126 73251 64354 24198 20053 06874 36035 44151 28152 15779  
39620 23363 55788 42244 33364 32618 82128 55347 98168

Attention (message repeated) Out

**5176 kHz, 24-03/29-03, 1605 UTC**

237/39 Attention

42805 95569 78625 65914 67237 40106 16999 99824 83986 06462  
64936 02100 37622 56940 29479 16955 47219 76774 00381 40734  
59179 93667 68485 62042 71718 36135 75335 51958 76050 51415  
75475 71052 89228 27313 33813 91612 44987 15092 25599

Attention (message repeated) Out

**6940 kHz, 25-03/26-03, 0930 UTC**

270/39 Attention

65402 65544 30686 55490 04648 45988 06273 16534 22682 52897  
82297 09480 49220 05792 90817 84681 42755 94647 77754 21332  
87746 84618 70805 48889 79397 00527 58473 39247 39294 50477  
80815 94370 48392 25216 48624 36525 04719 25403 81849

Attention (message repeated) Out

**12385 kHz, 25-03, 1045 UTC**

691/36 Attention

51134 31746 48346 98824 71203 51541 99385 64275 61129 44602  
42735 12925 68446 06731 63605 04237 42893 12916 18083 65187  
31029 90873 42969 95769 08841 69422 97661 49884 06769 78540  
65670 74156 22758 93607 22744 10646

Attention (message repeated) Out

**4181 kHz, 25-03/28-03, 1610 UTC**

392/32 Attention

90509 43964 45478 93815 77450 20391 04583 56836 18244 98497  
14194 16299 45454 88756 89827 86527 20405 12388 00924 94870  
18147 52794 40798 10032 65550 07975 13189 37807 24746 66827  
78064 34962

Attention (message repeated) Out

**20170 kHz, 27-03, 0830 UTC. New message instead of repeating 23-03**

185/36 Attention

99622 62797 96570 62367 94826 70042 43384 38578 82319 82206  
46021 81486 74364 03054 52453 78954 06396 63816 85194 72033  
02334 72673 19938 33980 05788 16647 53554 60459 02640 93434  
24510 04965 66333 32037 45419 74816

Attention (message repeated) Out

**9079 kHz, 28-03/29-03, 0700 UTC**

491/34 Attention

84760 73913 86228 58750 06034 46001 70717 45830 17870 08503  
 22096 47063 42190 88974 73880 28697 92466 83500 73921 16028  
 86690 89357 02288 53315 77889 16871 10763 38430 94850 16896  
 46086 42900 83656 12616

Attention (message repeated) Out

**13470 kHz, 29-03, 1745 UTC. New message instead of a repeat of 23-09**

247/31 Attention

48652 64442 94998 77258 99908 01893 00951 18076 27727 63715  
 94258 79403 67324 08385 86389 56370 78012 85222 58941 21452  
 90273 99554 63500 04259 95998 08056 06991 38185 10526 81352  
 93209

Attention message repeated) Out

**7317 kHz, 30-03, 1900 UTC**

646/31 Attention

19622 87333 80735 83027 03517 88176 83793 08448 68159 48845  
 89696 20636 84265 48105 71611 61454 24528 27915 91416 89677  
 31350 09749 46468 71619 03787 45057 67007 33002 64231 16759  
 99509

Attention (message repeated) Out

**S06****14395/11161 kHz, 11-03, 1330/1730 UTC**

480 961 45

65171 20265 62074 07474 31439 40301 69843 73960 26407 67392  
 89421 26916 85241 74716 19584 40215 91532 92636 95827 95861  
 94819 34908 58163 20851 53078 65763 52146 95036 49047 65365  
 01478 87297 37140 58545 93929 32749 02526 27954 39518 98270  
 43617 17851 34282 40627 43957  
 961 45 00000

**11534 kHz, 17-03, 1736 UTC, i.p.**

00377 41978 20249 66555 16050 94279 68902 32970 00873  
 67184 02696 74738 06044 36303 72697 87315 84397 18606 02797  
 60332 10045 89408 68380 39750 32886 73678 46601 47923 22672  
 85087 05405 97505 82303 11262  
 619 45 00000

**9116 kHz, 18-03, 1800 UTC**

480 275 43

83767 03248 86874 92712 54594 61852 86325 69360 02348 96245  
 05690 58562 12429 40868 15248 56302 73475 74531 59209 21802  
 46793 67480 27043 73262 18723 42072 51804 25817 12421 07869  
 41541 09857 12305 81716 23626 27869 49747 41216 53087 89408  
 91823 09526 21317  
 275 43 00000

**14360/13517/9116 kHz, 25-03, 1241/1305/1733 UTC, all i.p.**

480 257 48

41864 56846 34347 17432 75850 57901 79531 45373 19570 57262  
 01943 74064 03154 39415 76893 80498 81481 91426 32376 76037  
 29749 04564 81045 81305 72329 07032 58082 24087 48234 02952  
 34940 63051 03039 14690 75474 79017 12393 34174 49478 90821  
 72151 53426 19470 49070 14252 82623 93404 45829  
 257 48 00000

**11616/9322 kHz, 02-03/03-03, 0400/0420 kHz**

480 732 54

95526 90278 61897 62557 69905 08065 36853 50157 85586 42752  
 31039 21620 29469 14447 48097 85670 72693 91425 67272 02847  
 14605 28698 29991 87202 35022 48078 33981 45610 34484 58204  
 27083 15592 67185 37922 17967 87630 96260 31501 45918 22891  
 26132 29093 76911 02279 91588 30889 18120 67800 08294 18399  
 68087 42129 14402 81303  
 732 54 00000

**11616/9322 kHz, 05-03/05-03, 0400/0420 kHz**

480 169 8

96511 36968 46317 00200 89305 78347 91333 71244  
 169 8

480 273 51

27783 18497 24072 60718 56572 67839 53506 00303 10320 88923  
 64230 35829 74616 25004 46523 63672 30412 60218 70458 56158  
 24374 25097 57217 36846 37563 16235 21199 09827 25943 66061  
 62609 41445 22789 23645 15240 17921 20494 32468 79102 27268  
 73956 16118 92611 38983 92736 07819 24012 79912 24269 84752  
 86731  
 273 51 00000

**11616/9322 kHz, 06-03, 0400/0420 kHz**

480 480 480 00000

**11616/9322 kHz, 09-03, 0400/0420 kHz**

No transmissions

**11616/9322 kHz, 10-03, 0400/0420 kHz**

480 480 480 00000

**11616/9322 kHz, 11-03/12-03, 0400/0420 kHz**

480 196 42

66258 30217 54641 24747 64362 78571 08946 75629 99051 70907  
 52463 39420 34087 51775 11732 42736 47151 07620 84086 72809  
 52212 72313 34085 03386 47756 62091 36912 55482 39340 82057  
 79693 47703 09900 71473 56650 15787 36243 79980 19050 06081  
 75185 92035  
 196 42

480 723 14

28391 91009 81901 15686 58031 45790 34298 98183 13226 35966  
 59611 14010 24101 76304  
 723 14 00000

**11616/9322 kHz, 17-03/18-03, 0400/0420 kHz**

480 126 53

70461 23401 20489 74073 38606 48719 83652 40609 64201 38073  
 21187 01558 32508 83265 94635 52221 32900 70495 06643 39089  
 39204 50805 96960 58659 97559 48129 26458 96203 13978 65886  
 53794 27908 58848 78029 34465 34834 30391 15523 96890 02130  
 44564 84151 75249 01932 43282 74626 03735 83402 38347 50907  
 01922 18327 33191  
 126 53 00000

**11616/9322 kHz, 18-03/19-03, 0400/0420 kHz**

480 597 33  
97888 23217 12552 97249 58526 17265 14742 56129 33502 99604  
86689 31848 65729 97564 03875 71020 09354 62226 98445 93049  
29729 37026 45953 42562 59338 06135 51015 36472 26867 08563  
61593 54112 01607  
597 33  
480 362 19  
05294 26278 53305 54575 94548 02300 04326 75077 78262 97827  
22138 38889 45560 48126 05088 25888 11639 83050 47953  
362 19 00000

**11616/9322 kHz, 20-03, 0400/0420 kHz**

480 480 480 00000

**11616/9322 kHz, 23-03/24-03, 0400/0420 kHz**

480 159 60  
11610 83191 09130 62874 96421 36064 57700 27449 31327 87839  
88261 65928 88306 76810 59245 80300 01503 69662 58939 61212  
46097 24606 64890 04177 10644 21785 39714 06429 80045 46918  
93032 96326 71361 39095 64205 65276 89641 38665 05554 02686  
95954 96173 70752 56696 04827 28262 38096 69245 53247 31477  
23309 58860 08455 89934 61589 49668 06674 37762 63594 70015  
159 60 00000

**11616/9322 kHz, 25-03, 0400/0420 kHz**

480 673 28  
68774 07049 67942 51388 45372 33383 60374 37589 97650 06508  
11533 55328 67483 18294 68245 51132 24397 75820 38146 99367  
96251 73535 44227 43785 20722 69419 99422 39165  
673 28  
480 784 26  
37940 86842 77657 58302 94584 67396 43941 91560 91476 11792  
00270 18304 17392 35859 60537 56709 81745 54321 11619 82423  
44197 47585 41067 35837 94750 80972  
784 26 00000

**11616/9322 kHz, 26-03, 0400/0420 kHz**

480 673 28  
68774 07049 67942 51388 45372 33383 60374 37589 97650 06508  
11533 55328 67483 18294 68245 51132 24397 75820 38146 99367  
96251 73535 44227 43785 20722 69419 99422 39165  
673 28  
480 821 25  
79119 34417 77499 10303 08255 27693 98198 66933 64799 15953  
60057 43387 04664 12124 69591 56598 09261 82032 24745 15402  
93358 27423 48772 83694 89595  
821 25 00000

**11616/9322 kHz, 27-03, 0400/0420 kHz**

480 480 480 00000

**11616/9322 kHz, 30-03/31-03, 0400/0420 kHz**

480 537 52  
24841 43976 51483 43228 73193 05339 33142 10003 20770 19674  
19244 86003 95024 94703 83156 86769 91889 79235 82162 40001  
31377 54945 10165 17825 62182 80610 12598 80097 22053 12226  
80729 14690 82921 47426 67556 85664 35597 67668 92449 25320  
93685 76607 26781 31004 21444 58093 77671 52658 15239 02244  
12088 82023  
537 53 00000

## S06c

See Operator 6 sporadic events.

## S11a

### 23353 kHz, 04-03/06-03, 0725 UTC

387/34 Vnimanije

11995 13929 24133 76283 97248 39468 97966 63598 27332 04281  
91589 22520 95519 72006 77231 05428 72706 32122 98183 92934  
32948 73434 26852 02701 96382 14401 48131 33962 57039 94684  
37878 68484 94398 00747

Vnimanije (message repeated) Konets

### 6433 kHz, 07-03/08-03, 0830 UTC

378/37 Vnimanije

05351 24690 56983 92438 35406 14659 32812 77117 40734 32746  
49552 09633 83743 21633 01959 49619 95751 16210 72458 94546  
36919 38370 14760 63426 51748 55806 81572 56139 73853 92814  
51419 63393 23819 45918 64393 84505 22424

Vnimanije (message repeated) Konets

### 10213 kHz, 11-03, 1850 UTC. Not repeated on 14-03

285/32 Vnimanije

74183 79248 55942 94774 73302 01914 06103 80721 76310 48270  
66956 38165 67733 26218 02887 07888 03141 43664 00437 49130  
28834 34650 32433 66745 36183 58624 12384 83419 39761 44203  
47805 68295

Vnimanije (message repeated) Konets

### 10213 kHz, 14-03, 1850 UTC. New message

281/32 Vnimanije

61009 77614 49736 82951 08074 09787 17618 65124 43153 02071  
92058 79336 94096 99254 90927 53196 84307 04124 74972 32021  
88506 59452 08249 65516 41868 03081 01593 94664 44480 04089  
82997 39830

Vnimanije (message repeated) Konets

### 8597 kHz, 16-03/19-03, 0700 UTC

471/32 Vnimanije

40712 61158 10186 97178 86718 16720 70751 89446 95433 57322  
96534 21378 45951 83211 32987 20846 09900 58986 57082 41128  
35471 79098 45316 82222 29746 40641 07892 84505 31009 83235  
83329 83747

Vnimanije (message repeated) Konets

### 6480 kHz, 16-03/20-03, 0915 UTC

487/36 Vnimanije

59459 80137 05140 34684 00067 26046 26174 84881 35392 60907  
03454 71166 40592 54832 01288 39721 56879 35409 47289 32700  
64065 06356 36979 06379 68000 81770 12104 48732 15628 88643  
18619 48477 16900 71564 79933 64914

Vnimanije (message repeated) Konets

### 23353 kHz, 20-03, 0725UTC

387/35 Vnimanije

82951 40079 29823 86753 73016 09499 68342 53923 60921 06255  
29172 21086 86640 20455 00468 37585 46476 91465 23104 22707  
70413 93114 23030 95703 29878 91708 49142 77468 30227 48198  
19132 22142 50727 20527 94947

Vnimanije (message repeated) Konets

**11420 kHz, 24-03/27-03, 1400 UTC**

424/34 Vnimanije

57391 47125 11307 88082 91374 15444 61502 32803 90652 24246  
72217 23558 04019 50937 87735 57459 58072 02021 06283 37847  
23835 25370 87543 96862 92033 52044 21006 21763 82711 60521  
50154 01786 72920 43190

Vnimanije (message repeated) Konets

**V07****19172/17472/16272 kHz, 01-03, 0200/0220/0240 UTC**

112 112 112 1 9633 121 9633 121

92677 54077 74951 90196 36294 36425 92292 32433 03652 10537  
18577 87062 64202 49254 59513 92379 36129 27559 84721 28369  
84857 25955 91063 13290 92074 25381 16748 92070 97333 30583  
96434 56317 18148 49071 22179 89071 32654 42335 57402 17812  
28774 24047 34740 24776 75765 29677 90345 11684 86700 93386  
63026 63359 44949 87399 86383 35324 61703 26728 50073 58725  
51984 82218 25104 68630 04195 50568 72103 53846 27286 20271  
09169 86697 00042 55662 14685 83148 49643 09274 82984 56131  
01186 34137 95983 38171 99250 64345 44199 95824 47265 58334  
02272 82218 30164 88591 32471 53904 32607 75016 11272 74647  
53925 47379 66514 86576 57761 26112 39832 43270 41348 70954  
92412 14792 90490 80322 14517 93646 50312 79371 76346 55207  
67734 000 000

**19172/17472/16272 kHz, 08-03, 0200/0220/0240 UTC**

112 112 112 1 9553 68 9553 68

49283 46908 70892 74489 15969 48423 25987 38994 19844 97473  
82396 72847 58396 45004 25304 54261 90045 79935 49012 35603  
12357 82494 56311 30489 22443 75380 41530 65176 38687 08234  
32009 00673 62712 94834 88693 34333 21231 02677 93459 81440  
49249 40037 64834 89846 43736 25024 50197 67397 85104 51021  
81356 26956 85093 57390 89795 78043 85257 27653 24209 96364  
71409 16941 68517 32579 14260 13799 69373 47929 000 000

**19172/17472/16272 kHz, 15-03, 0200/0220/0240 UTC**

112 112 112 1 3734 119 3734 119

42293 12132 34413 42582 95931 54684 11836 72783 67904 47114  
88972 70125 66210 76763 75774 55045 32713 51884 07761 80610  
96125 95199 14463 67334 52492 51039 30931 26569 83364 70718  
75059 02597 51915 78587 24286 17934 06383 92396 42623 43725  
46827 54270 60192 75673 43840 01496 62461 81852 20848 39567  
65496 14324 54010 28920 85954 70169 47489 52315 20813 64635  
01589 86340 13699 58974 06239 79889 21592 03058 34762 55276  
05564 40042 91067 21903 52149 12431 40306 55284 95248 32570  
03457 41769 38062 52783 39779 12029 80487 39561 15884 99961  
37421 05166 48577 09461 25345 35646 70971 55332 07107 87373  
22427 76249 82977 19154 55532 04401 81820 94310 12103 35816  
58950 02292 73925 10764 90401 36853 28850 43555 05982 000 000

**19172/17472/16272 kHz, 22-03, 0200/0220/0240 UTC**

112 112 112 1 5312 82 5312 82 87135 ... (too weak to copy)

**19172/17472/16272 kHz, 29-03, 0200/0220/0240 UTC**

112 112 112 1 4470 81 4470 81

23674 60988 65564 96952 56983 61926 37514 84828 49484 83429  
48198 65822 19103 17797 59207 85917 31708 27119 99933 64128  
23541 31180 62355 95430 48308 17388 61306 67831 80803 62347  
73456 14776 51127 47977 49877 14309 24877 10405 89901 79688  
72121 81771 63442 65929 93961 80675 30678 75963 60822 90282  
92380 48735 93544 61665 67467 93255 70807 15577 22008 90781



59519 06325 30954 85416 82072 30271 33985 76211 92779 64752  
78972 83417 81270 16297 05586 99891 56779 71747 85946 71005  
000 000

## **V13 - New Star Broadcasting Station (星廣播電台 Xīngxīng guǎngbò diàntái)**

### **15890 kHz, 17-03, 0030 UTC New Star Broadcasting. Station 3**

Unit IDs: 1921, 5559, 8955

Group Counts: 32, 31, 30

0332 2334 9755 8772 3711 4639 2620 7020 9494 3473  
5695 2968 8943 6528 0554 8816 9305 0260 7440 5092  
5202 2125 6111 3885 4084 4134 9160 3618 2453 3596  
2246 1085

2288 6884 9670 8380 0127 8094 1948 1093 6067 4055  
0528 7636 4612 5509 9685 3188 0445 9479 2412 4564  
0178 1331 2492 5205 2796 2864 5476 5317 5630 2138  
9865

8552 8969 7227 4383 8353 2991 6159 9174 2876 6029  
7063 1483 3053 6727 3649 4202 7442 2892 6154 9532  
6099 7500 9757 9709 6021 5579 2731 0253 8108 4773

Note: was simulcasting on 18040 earlier.

### **20025 kHz, 17-03, 0100 UTC New Star Broadcasting. Station 4**

Unit IDs: 2023, 8603, 9161

Group Counts: 35, 30, 33

6048 9097 3627 8376 2316 2870 7367 4496 8247 6909  
6390 7920 8381 5821 1773 4267 3677 2536 4086 2827  
3185 5816 2858 5892 2933 8983 9049 4531 3048 1643  
5874 9133 5487 2649 5106

1236 8332 5734 9975 4439 1221 3117 3027 5805 3314  
2920 6797 3261 0319 1731 5116 6036 2384 7161 7888  
7900 4739 1454 6115 5289 6490 3544 9845 2594 7906

4999 5142 9881 5469 1442 2729 5413 1379 6223 9792  
1863 3305 9038 3179 7686 3659 6887 3339 5719 9066  
3558 1429 0015 1154 1247 0991 0159 5822 5138 3701  
7158 8107 6487

Note: station 4 appears to be back on the 0 and 1z slots.

### **21000 kHz, 17-03, 0130 UTC New Star Broadcasting. Station 1**

Unit IDs: 1088, 2130, 9764

Group Counts: 32, 33, 32

4111 1502 7221 5663 4266 3800 6537 7898 7522 5486  
0958 2069 7538 8020 5643 3521 2271 1570 0772 4752  
1852 4355 6950 6943 9896 0985 7111 4429 8862 5049  
6485 3379

4958 6314 0602 7766 6634 5831 8581 9955 3761 7561  
0038 1581 4450 5146 3336 2196 7181 2091 7352 0081  
0402 5869 4749 6948 1841 3066 7289 1408 0053 8662  
8115 4207 1570

8396 3835 2638 1359 2064 4686 9637 2134 8830 8020  
2127 0147 6766 7113 5132 0584 6249 6893 9899 1753

9876 0301 8041 3498 6237 1755 9583 6762 4808 9277  
8377 5989

**9276 kHz, 20-03, 0300 UTC New Star Broadcasting. Station 2**

Unit IDs: 2428, 8182, 8679

Group Counts: 31, 31, 34

1695 7158 4279 5880 4574 1211 6398 8802 6426 7163  
4909 8855 8715 4593 8825 3550 9480 1897 8026 9444  
6225 0350 3313 4225 8985 9656 6151 6161 5053 2491  
5894

6620 9629 3936 8311 1957 4197 9551 9999 4337 1704  
2241 3690 0717 5652 0688 5784 0620 2011 9466 3032  
9130 4762 1938 1897 4774 7347 3117 3822 8790 0319  
9658

6105 2474 7074 2347 5998 6625 0660 7498 7299 1084  
7932 1387 5890 3370 4173 2723 5178 5429 5414 8136  
3958 7710 2284 7294 3161 4078 5360 1468 2935 8239  
8551 1889 2480 1700

**15890 kHz, 22-03, 0000 UTC New Star Broadcasting. Station 3**

Unit IDs: 1881, 3133, 8708

Group Counts: 31, 32, 30

5500 0527 0859 7440 2475 6572 3200 3110 7887 5279  
7178 4966 8727 0110 7418 7393 4556 4044 0128 6385  
1499 3525 8383 1583 4673 4972 8098 9201 0407 3132  
1506

4062 6869 5710 0465 6948 1310 6770 5078 3977 8841  
0743 8774 8168 8133 6115 0917 1167 6971 8651 4673  
5327 9270 4118 1385 1101 8077 4331 3734 8901 1787  
7100 3486

6609 3173 8655 2188 3112 9074 6118 6124 3687 0760  
9939 2124 4248 7219 2504 9743 4803 2205 3850 1804  
6288 7899 9968 9714 2169 9106 1742 0819 3186 6241

**19052 kHz, 22-03, 0030 UTC New Star Broadcasting. Station 1**

Unit IDs: 4898, 7875, 9393

Group Chat: 34, 32, 35

7731 1568 7433 0338 2112 0367 8977 1876 8208 5725  
0532 4959 3407 1022 2870 1406 5936 8910 6601 0722  
5966 2874 5874 5796 2553 4645 9358 8125 4259 2219  
4797 1189 3356 9984

3417 0010 1774 7571 6925 5647 1032 1626 7576 7238  
6311 1667 3971 2200 1756 3464 2374 5348 8521 6085  
6767 6065 7274 8467 2954 5999 2486 7260 4063 8034  
9153 6260

4023 3433 7042 0184 3226 4511 3001 9873 2912 5171  
5940 9179 4667 0727 1722 0640 7118 7057 4296 7544  
3366 4179 9533 9288 3622 4099 7531 0630 1036 3393  
5792 4094 8440 8838 7704

Note: intro, preamble, and first message repeated again after the broadcast ended!

**18040 kHz, 25-03, 0030 UTC New Star Broadcasting. Station 4**

Unit IDs: 1265, 4474, 7109

Group Counts: 33, 33, 35

5717 7942 7979 3615 1364 7646 2522 5218 7782 1806  
4282 7497 5405 1253 2323 1428 5415 4120 2930 2844  
9628 2720 9794 8463 4452 4799 7287 9736 3863 3197  
9737 7523 7313

5586 7982 7636 1593 9006 6239 1018 6602 2677 8738  
1656 6225 7572 7588 0777 5004 6835 8463 6410 3817  
9054 8793 5966 5147 8590 7543 5363 3342 3640 1730  
7451 8362 5962

3107 6399 0593 9976 4647 3433 6332 2916 5429 0396  
3276 4341 0875 5296 5045 2224 8394 4997 0229 5961  
6514 8405 2458 4904 5889 4277 4295 1932 9474 7691  
1979 8145 1782 9660 3876

**16050 kHz, 25-03, 0200 UTC New Star Broadcasting. Station 5**

Unit IDs: 0370, 2313, 7940

Group Counts: 34, 35, 31

4753 7673 6830 5371 0235 9920 6135 7916 4897 8293  
2288 9319 9108 8140 8405 6545 6616 8752 8802 4741  
1608 9717 0165 3808 4284 1949 8424 4707 7770 3952  
2432 7252 3644 9723

6597 0283 9065 1563 0851 4934 9415 1033 4548 9795  
9301 2097 5557 3948 2033 1446 7273 7831 9507 5903  
9125 4010 1402 7666 8558 8758 5805 5350 0188 8705  
4844 7490 8941 0334 6261

8037 7168 1288 4963 5074 0210 4604 0002 9139 6849  
3656 3207 8172 5455 5741 4286 0548 3011 9641 5359  
4558 8331 7075 0068 1573 0546 4864 9538 8615 8084  
6653

**8300 kHz, 26-03, 0230 UTC New Star Broadcasting. Station 2**

Unit IDs: 3123, 5753, 9930

Group Counts: 31, 34, 35

9389 0826 4767 0169 0939 4109 0600 0546 9455 5813  
7160 7778 8871 3351 2246 2803 3691 3852 8302 0323  
9497 8618 2545 9167 3911 8399 7149 3683 9801 7078  
6326

7351 7999 6383 1078 3065 1179 4251 7935 0292 6320  
8679 6113 5184 1442 6695 1045 5094 3514 4594 6040  
0351 6918 5708 8142 1399 4875 7388 3866 7138 5891  
0622 2978 1640 2972

9187 8815 3069 0364 1466 1251 3265 3207 2947 8199  
0374 4772 8590 4268 8080 0174 2080 1596 4493 3137  
5634 8855 1188 8284 4354 4028 8912 8221 4992 8566  
7618 7296 3657 2019 1675

**15890 kHz, 29-03, 0000 UTC New Star Broadcasting. Station 3**

Unit IDs: 2788, 4636, 9947

Group Counts: 32, 34, 34

8835 5564 5706 3755 7689 1379 1072 6523 7986 0691  
3192 5815 3434 8049 0362 8200 1092 9007 6077 1213

9502 5008 6494 5198 2228 1535 4427 3609 8927 4141  
3238 6849

9883 1395 4001 7462 3341 2860 5787 7967 2279 6627  
7230 7962 4347 5783 6245 6871 7461 1953 4767 0036  
1248 1962 2456 4593 2835 2496 7773 5921 9254 0007  
0241 3342 9579 2693

8378 2501 9264 6363 8738 7729 6342 4585 9833 2359  
7372 0624 0547 3364 9443 6587 3216 5765 3695 0621  
8598 0974 8499 8502 9679 6563 2275 8838 1312 4292  
5558 7376 8897 2019

**18040 kHz, 29-03, 0330 UTC New Star Broadcasting. Station 4**

Unit IDs: 7004, 8373, 9014

Group Counts: 33, 32, 32

1270 4554 8231 0148 3178 3032 8013 2943 6470 1306  
2844 8748 3549 8265 8740 9405 8430 5115 4504 4224  
7623 8099 7579 0875 9023 3644 3691 2401 0969 7638  
2938 5480 2020

3350 9263 9390 2454 3722 1893 8446 0331 4275 7110  
6257 3540 1650 3450 3115 5205 8367 5860 6711 6777  
8538 9090 1051 1543 3581 8217 2209 7499 7564 8222  
5870 2166

7485 9602 8704 9050 7405 1349 9686 2989 3700 4121  
6598 8313 8223 8346 1736 8774 1065 6036 7457 8817  
1947 5708 0152 9052 9949 0716 0812 5663 0405 7459  
6900 3742

**21000 kHz, 29-03, 0100 UTC New Star Broadcasting. Station 1**

Unit IDs: 4940, 6003, 9061

Group Counts: 31, 33, 30

8591 7454 3869 8955 2242 1608 8178 7089 4853 7708  
9863 5568 3423 0479 8991 2088 2915 9011 2971 7288  
0586 6011 7145 7589 6516 0748 3876 9570 1534 9594  
2943

2315 5717 8384 1166 9404 4611 1678 7139 8340 8879  
9115 7142 4018 1371 3883 5954 7477 2946 2508 6675  
6554 5067 0182 0872 9458 3060 8371 7550 5690 6795  
7905 1163 9493

4333 7478 9308 9720 6244 2958 5155 7835 3740 0656  
3132 1351 4294 4252 0579 8837 0351 1387 5605 9694  
9331 6919 3696 7682 3041 6632 1310 5891 4239 8799

**16050 kHz, 29-03, 0200 UTC New Star Broadcasting. Station 5**

Unit IDs: 7907, 9491, 9637

Group Counts: 32, 35, 35

4483 1853 4207 5095 4353 1766 6605 4077 3952 4560  
0185 7960 2490 3707 0407 2521 8358 5988 1125 4617  
4991 1153 2597 3259 9858 3637 7997 7565 2797 2126  
0727 7044

6496 0632 9553 1504 1609 9941 0404 4691 6746 3941  
6211 3566 1756 6495 6443 3471 1106 3250 3601 8604  
9510 1422 6175 2515 8266 3367 6568 6849 0856 2341  
5924 6921 9212 8472 7937

4700 3923 3206 6167 5886 5510 7858 1012 1362 6308  
0484 0657 6788 4910 7102 2075 5082 9892 8968 7811  
5010 4757 8864 7307 0145 8981 3165 5757 6958 7120  
5113 8763 7570 6410 8246

**8300 kHz, 30-03, 0230 UTC New Star Broadcasting. Station 2**

Unit IDs: 0203, 5942, 8185

Group Counts: 32, 31, 35

3593 6151 0296 8462 8506 3046 4182 0770 4308 1329  
4887 5955 0461 6727 3170 1753 3772 5292 6393 9371  
1449 1042 2449 9537 9512 4391 2604 2821 2733 6479  
6805 3124

5690 1098 6455 9238 4693 5383 5642 5593 0826 8614  
5482 8114 5445 7120 9661 6725 2708 6967 7040 1755  
3693 6352 8681 0094 3086 0930 0063 7503 4266 4327  
6480

3213 7833 0532 4486 6916 9805 2117 4979 4480 2680  
8910 1995 5159 9250 9238 0724 3465 5565 8831 2815  
5808 2553 7655 6808 6456 3991 4925 0380 9741 6985  
0677 7680 0339 1331 4705

## V28 - 앵무새 Aengmusae (Parrot)

3045 kHz, 03-03, 2102 UTC, AM Parrot  
3068 kHz, 03-03, 2102 UTC, AM Parrot  
5491 kHz, 03-03, 2102 UTC, AM Parrot  
3045 kHz, 04-03, 0905 UTC, AM Parrot  
5255 kHz, 04-03, 0905 UTC, AM Parrot. Male operator

## V32 - FARSI station

See <https://priyom.org/number-stations/other/v32> for a detailed description and analysis of the station.

Daily broadcasts at 0200 and 1800 UTC. Messages in Farsi. Often jammed by a tone jammer and the infamous Iranian “bubble” jammer.

### Frequency: 7910 kHz

01-03, 1800 UTC Messages in Farsi  
02-03, 1800 UTC Several messages in Farsi  
03-03, 0200 UTC Messages in Farsi  
03-03, 1800 UTC Several messages in Farsi  
04-03, 0200 UTC Messages in Farsi  
04-03, 1800 UTC Messages in Farsi  
05-03, 0200 UTC Heavily jammed by Iran  
05-03, 1800 UTC V32 not heard but Iran jammed the frequency anyway. Jamming started at 1820z  
06-03, 0200 UTC Not heard. Jammer active between 0151 and 0317 UTC  
06-03, 1800 UTC V32 not heard. Strong Iranian jammer  
07-03, 0202 UTC Iranian jammer, no V32  
07-03, 1629 UTC Tests  
07-03, 1802 UTC Iranian jammer. on 7910, V32 moved to 7842 kHz  
08-03, 0200 UTC Iranian jammer on 7910 kHz  
08-03, 1800 UTC Iranian jammer. on 7910 kHz  
09-03, 0155 UTC Iranian jammer on 7910 kHz

### Freq change to 7842 kHz

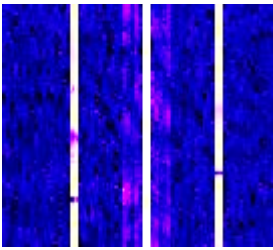
06-03, 1913 UTC Messages in Farsi i.p.  
07-03, 1800 UTC Messages in Farsi  
07-03, 1858 UTC Messages in Farsi

|                 |                                                                                                                                                             |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 08-03, 0130 UTC | Male and female operators. "Please contact, please contact. I repeat, please contact, please contact" is said over and over again. Not sure if this is V32. |
| 08-03, 0200 UTC | Messages in Farsi                                                                                                                                           |
| 08-03, 1800 UTC | Message(s) in Farsi                                                                                                                                         |
| 09-03, 0200 UTC | Message in Farsi (barely audible)                                                                                                                           |
| 09-03, 1800 UTC | Several messages in Farsi                                                                                                                                   |
| 10-03, 0200 UTC | Messages in Farsi                                                                                                                                           |
| 10-03, 1800 UTC | Messages in Farsi                                                                                                                                           |
| 11-03, 0200 UTC | Messages in Farsi                                                                                                                                           |
| 11-03, 1800 UTC | Messages in Farsi                                                                                                                                           |
| 12-03, 0200 UTC | Messages in Farsi                                                                                                                                           |
| 12-03, 1800 UTC | Messages in Farsi                                                                                                                                           |
| 13-03, 0200 UTC | Messages in Farsi                                                                                                                                           |
| 13-03, 1800 UTC | Messages in Farsi                                                                                                                                           |
| 14-03, 0200 UTC | Messages in Farsi                                                                                                                                           |
| 14-03, 1800 UTC | Messages in Farsi                                                                                                                                           |
| 15-03, 0200 UTC | Messages in Farsi                                                                                                                                           |
| 15-03, 1800 UTC | Messages in Farsi                                                                                                                                           |
| 16-03, 0200 UTC | Messages in Farsi                                                                                                                                           |
| 16-03, 1800 UTC | Messages in Farsi                                                                                                                                           |
| 17-03, 0200 UTC | Messages in Farsi. Jammed by Iran. Jammer started at 0223z                                                                                                  |
| 17-03, 1800 UTC | Messages in Farsi jammed by Iran                                                                                                                            |
| 18-03, 0200 UTC | No V32 or jammer heard                                                                                                                                      |

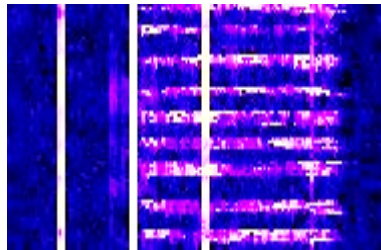
#### **Freq change to 7910 kHz**

|                 |                                                                                                                                                                                                                       |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 18-03, 1800 UTC | Messages in Farsi                                                                                                                                                                                                     |
| 19-03, 0200 UTC | Messages in Farsi                                                                                                                                                                                                     |
| 20-03, 1800 UTC | Messages in Farsi after 8 minutes jammed by Iran                                                                                                                                                                      |
| 21-03, 0200 UTC | Messages in Farsi. Iranian jammer at 0233z                                                                                                                                                                            |
| 21-03, 1800 UTC | Two hours transmission. Messages in Farsi. Jammed by loud carriers that started a couple of minutes before V32 started and ended at 1923z. The Iranian jammer started at 1814z and ended at 1958z. V32 ended at 2000z |
| 22-03, 0200 UTC | Messages in Farsi. Jammed by a carrier and two tones and the Iranian jammer                                                                                                                                           |
| 22-03, 1800 UTC | Messages in Farsi. Jammed by a carrier and two tones and the Iranian jammer                                                                                                                                           |
| 23-03, 0200 UTC | Messages in Farsi. Jammed by a carrier and two tones and the Iranian jammer                                                                                                                                           |
| 23-03, 1800 UTC | Messages in Farsi. Iranian jammer started at 1743z on 7912 kHz, a carrier and two tones started at 1758z                                                                                                              |
| 24-03, 0200 UTC | Messages in Farsi. Jammed by a carrier and two tones                                                                                                                                                                  |
| 24-03, 1800 UTC | Messages in Farsi. Iranian jammer activated at 1744z on 7912 kHz                                                                                                                                                      |
| 25-03, 0200 UTC | Carrier and two tones and jammer present. Both weak. V32 not heard                                                                                                                                                    |
| 25-03, 1800 UTC | Carrier and two tones jammer. No V32 heard                                                                                                                                                                            |
| 26-03, 0159 UTC | Carrier and two tones jammer up till 0350z. V32 not heard                                                                                                                                                             |
| 26-03, 1748 UTC | Iranian jammer (stopped at 1756z). The carrier and two tones jammer started at 1803z. V32 not heard, also not on 7842 kHz                                                                                             |
| 27-03, 0200 UTC | Not monitored                                                                                                                                                                                                         |
| 27-03, 1800 UTC | No activity                                                                                                                                                                                                           |
| 28-03, 0153 UTC | Carrier and two tones jammer active for 1h35m. No V32 broadcast                                                                                                                                                       |
| 28-03, 0330 UTC | Weak V32 signal reported                                                                                                                                                                                              |
| 28-03, 1800 UTC | Carrier and two tones jammer. No V32 broadcast                                                                                                                                                                        |
| 29-03, 0200 UTC | Not monitored                                                                                                                                                                                                         |
| 29-03, 1800 UTC | Tones jammer. No V32 heard                                                                                                                                                                                            |
| 30-03, 0200 UTC | Tones jammer                                                                                                                                                                                                          |
| 30-03, 0330 UTC | Message in Farsi                                                                                                                                                                                                      |
| 30-03, 1944 UTC | Messages in Farsi i.p.                                                                                                                                                                                                |
| 31-03, 0200 UTC | Messages in Farsi                                                                                                                                                                                                     |
| 31-03, 1918 UTC | Messages in Farsi i.p.                                                                                                                                                                                                |

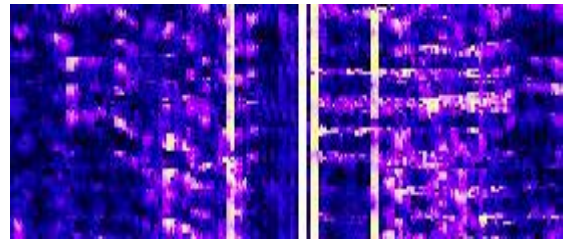
No activity on **7842 kHz** between 25 and 31 March.



Carriers from who??? Started before V32 came on the air and stopped after V32 was finished



Carriers and V32



Carriers, V32 and Iranian jammer

**Transcripts provided by qsr177. Ecellent job. Many thanks !**

**Only one message on 28 February:**

Tavajjoh Tavajjoh Tavajjoh  
64096 46553 25901 60957 59648 02969 68411 58113 86106 53297  
80100 66181 11295 97826 14181 50511 50079 41456 56010 03481  
00114 48761 66136 44582 40089 54116 87388 31451 35564 37592  
14424 47683 51354 63530 35539 77186 80463 36153 96882 66695  
92636 45175 97489 64173 00236 92961 85225 89226 99845 13829  
52364 31771 38454 90173 52866 95536 03184 91314 29271 39260  
87528 71093 40669 51947 29373 97480 20949 52888 84363 28459  
97592 12048 08232 34779 38011 32402 90064 03684 04082 35469  
18361 98516 10993 57695 54888 56524 97222 02641 27526 56940  
72959 86770 20858 86188 26936 18327 97145 71932 25927 31425  
05779 40656 73803 66466 09422 66104 45434 42122 00864 62214  
72061 21645 85374 67434 53324 96293 56654 97533 80977 56240  
17756 09772 80371 74125 78089 03524 80803 94277 68257 29254  
10140 80460 47991 12943 75260 15140 37603 02654 83359 52212  
17582 78214 74484 84888 08771 70091 81519 78399 99150 91037  
51133 24412 64419 77269 65565 89301 72488 67335 50468 08968  
53236 08313 71612 27150 87818 41939 37474 92215 51519 94288  
98074 95634 98686 91764 74840 83109 09663 26504 00162 99484  
79934 76050 79279  
Tavajjoh Tavajjoh Tavajjoh

**11 March:**

Tavajjoh Tavajjoh Tavajjoh  
64096 22521 11644 01798 38036 09513 30508 14615 27706 85170  
26750 89039 53013 60215 69058 99615 47830 59871 44646 51879  
94857 06977 96353 89484 93200 95593 48009 56924 81559 30567  
32681 42836 63714 98825 19582 68386 15316 79743 85436 78635  
49631 95023 98163 28384 16689 94254 19024 19695 30366 08248  
97813 36203 06605 36839 09234 60318 35872 86253 62362 36289  
67692 72810 91859 77307 58456 51229 15026 53526 01877 42484  
92384 01250 96520 06896 24562 99821 51850 64561 43764 92789  
88367 56623 61409 43596 22953 07923 79909 25549 04830 12155  
08274 50938 82916 55193 89239 42426 81749 65485 93204 44151  
59472 17434 24682 58492 50175 59182 87228 21552 46388 50374  
81512 28277 38235 03349 95723 25248 09440 14407 00858 12662  
81729 14148 77638 88083 48483 07997 55408 73382 39545 78395  
84722 55108 43698 87306 59627 50976 01726

Tavajjoh Tavajjoh Tavajjoh  
64096 46553 99716 24575 37302 68661 10822 88912 25965 95017  
09039 28920 78185 00620 71677 38310 84569 82453 51693 05320  
36957 00761 76601 95493 25927 50043 61651 52138 75792 76577  
35008 48620 63637 35008 25103 68388 74291 00495 09422 01562  
50359 16867 61316 03471 20812 11612 13463 16763 36845 38162  
56218 64747 31315 23819 31363 17970 85093 67214 13859 39419  
76681 91249 58920 51507 38657 67307 61993 76708 60229 22197  
73025 93369 60488 44659 06703 06535 86194 22055 77582 85951

08496 33289 25193 81895 11696 96573 31299 09562 82503 78372  
18654 96890 79849 58656 40410 02574 63487 98284 40930 28400  
62752 51341 28325 35408 81153 38487 72870 13038 20815 03854  
49464 33566 50919 78395 96993 99744 53203 48498 67568 52134  
50140 39818 42484 38652 15878 74840 16772 06763 12454 65425  
64990 06987 38718 10325 98940 27784 38544 75110 06254 27965  
19962 25514 20335 60056 36190 92542 37990

Tavajjoh Tavajjoh Tavajjoh

11050 90128 92735 11775 87942 93201 48899 16977 01571 42308  
57912 78062 76331 66993 82491 2\_5\_3 36877 91872 03363 37600  
20967 99566 54825 43622 90051 96545 58403 21533 13312 79207  
78207 43208 72902 58251 52098 60474 32645 03578 94577 35130  
25687 36051 68801 27088 01373 31008 75843 6292

Specifically

8042 41241 50491 12985 05012 58150 42252 35540 03863 08433  
42501 29797 06154 35967 48941 47536 50088 42477 47480 85602  
64499 66056 98269 56517 64261 36765 17939 39895 28170 54570  
95985 13378 51730 87054 03151 76147 17450 96519 88443 17843  
27800 89109 70211 56675 98545 77623 63898 39946 12168 60696  
92179 09203 49687 98902 17978 72465 92926 26972 69169 30063  
57505 79692 97626 28437 11497 90374 32778 18032 49149 02561  
67029 23657 37651 59151 21160 04405 18006 82414 55274 79503  
87563 52118 1\_600 84048 69273 37860

Tavajjoh Tavajjoh Tavajjoh

11050 63884 31220 50290 46409 73391 12333 22854 90679 18191  
93022 89491 20045 63589 91875 50086 39911 68102 08724 92272  
52369 77239 40957 69501 94660 57295 75200 23687 40694 83184  
99007 60961 44710 31098 90265 42007 07144 09935 13143 01398  
67511 37282 24908 96814 66338 85313 06640 73603 90689 72603  
98983 95060 46671 71692 08879 79063 80247 15328 21963 69467  
37556 18062 06550 67598 65856 25979 76926 65910 81806 86001  
98654 26572 41405 44542 82215 71550 75694 63891 38770 01687  
90582 45625 95541 85737 00729 15196 18119 08623 89488 28748  
25105 01866 16423 75534 79573 95658 16420 28085 15514 88199  
65808 19140 71013 07201 34708 71421 61392 16074 87850 12900  
97076 17311 76379 24478 72503 37658 91770 30628 91209 73770  
07345 38828 24598 96130 50885 09194 46962 09293 44106 54557  
42343 14419 95873 54862 88535 44152 35800 12415 72142 62186  
80391 78648 70754 47919 71276 68007 19406 71740 23084 42211  
42293 01147 00293 75383 21401 49972 4618?

Tavajjoh Tavajjoh Tavajjoh

11050 32155 68534 74981 80040 42487 66586 01958 50988 24545  
91285 71815 42027 11594 74294 21657 33068 90055 33598 68426  
18217 94637 08490 94576 58635 77332 62009 13930 83881 31098  
62165 81060 81294 93646 28275 24280 27564 61173 44628 08246  
83076 97631 73503 35960 97824 14471 78085 41928 49979 18063  
35616 47546 78097 74339 40599 23312 02439 30527 78277 03092  
27252 07850 05511 71943 82836 05036 06866 65362 99248 45807  
50038 78118 75569 67541 51293 96695 30605 96889 32054 00902  
54929 33784 84238 90156 35953 37243 74654 95543 58927 71261  
99457 21171 61075 14668 78391 95120 17506 32043 31884 62610  
01072 07945 18668 85621 57866 79922 54101 32589 43596 58412  
36334 07908 16659 25847 71861 86488 45446 33251 75085 11300  
52016 43438 24684 68566 45639 93844 86924 82659 26435 60845  
71453 09705 64515 22159 62533 52297 80271 93500 65060 21788  
63716 92351 54748 32619 29541 578??

Tavajjoh Tavajjoh Tavajjoh

11050 32315 56850 47498 18004 04248 86658 60195 85098 82454  
59128 57181 54202 71159 47429 42165 72300 68900 55335 98684



26182 17946 37084 90945 76586 35773 32620 09139 30838 81310  
98621 65810 60812 94936 46282 75242 80275 64611 73446 28082  
30769 76317 35033 59609 78241 44717 80854 19284 99791 80633  
56164 75437 80977 43394 05992 33120 24393 05277 82770 30922  
72520 78500 55117 19438 28360 50660 68366 53629 92484 58075  
00387 81187 55696 75415 12939 66953 06059 68893 20540 09025  
49293 37848 42389 01563 59533 72437 46549 85435 89277 12619  
94572 13716 10751 43687 83919 51201 75063 20433 18846 26106  
10720 79451 86388 53215 78667 99225 41013 25894 35965 84123  
63340 79081 66592 58477 18618 34884 54463 32517 50851 13005  
20164 34382 46846 85664 58399 38448 69248 26592 64356 08457  
14530 97056 45152 21596 25335 22978 02719 35006 50602 17886  
37169 23515 47583 26192 95415 78339 68882 42923 71646

## 12 March:

Tavajjoh Tavajjoh Tavajjoh

64096 22521 58108 63768 74498 44601 52912 90397 57483 82028  
94420 80921 54088 41418 15248 87849 19601 82528 51691 46525  
56927 64979 61811 08151 70050 77142 45033 11743 61251 13089  
92046 77275 10935 28872 24850 16845 41252 45800 93504 22699  
75650 04326 45617 07079 79911 30577 32721 71490 45435 39900  
35285 82614 72282 96376 13109 61574 03254 92015 22052 94736  
41025 60943 71459 09943 89583 96213 67521 51156 30918 55094  
66215 35485 74069 89644 68851 23394 71370 43068 00479 35665  
87483 54970 10649 81698 97711 99014 57306 75082 46281 33844  
54139 33988 02706 52232 90739 48921 40445 59509 45147 42456  
19405 50135 70886 99667 35471 50214 57075 59390 55218 92937  
47329 27872 43983 72680 03871 58170 99267 01085 78745 19897  
30661 09849 96171 72919 57103 23866 15881 12491 81597 88316  
42546 78047 46102 04542 59366 85645 66276 08039 31499 82289  
47664 30199 64752 23860 50780 91661 05698 18775 98232 14923  
49393 72???

Tavajjoh Tavajjoh Tavajjoh

64096 46553 16604 89775 80247 90264 76761 37647 14138 67256  
70725 99805 69091 32982 79756 73678 27813 91214 70362 65072  
11620 10596 52778 69529 63486 17997 29796 95173 60092 21711  
50619 26201 06710 38003 09172 20736 17013 68506 56182 07131  
15276 10325 19258 58239 36715 90055 66191 29847 14278 17886  
45692 50341 84363 82920 77353 45872 14529 73066 49225 76838  
79299 19207 17303 09850 47486 25677 21685 90263 84039 26098  
29685 33057 86499 59239 86121 59371 78058 39357 54116 61561  
74764 31898 36968 52793 78054 40214 79519 11656 74935 98931  
34271 94619 25724 69167 52785 67397 49131 02207 92487 53744  
75516 95264 03707 70751 00681 61558 93033 42772 42738 29051  
80270 09715 26701 80771 51122 17291 22113 07021 49266 43369  
12713 70933 45965 29109 84943 82616 60458 60971 56644 55442  
29801 41496 29196 01219 04373 91483 03977 59341 30179 19457  
032??

Tavajjoh Tavajjoh Tavajjoh

11050 90128 79897 77073 89569 61367 49066 21360 25459 96977  
97078 32969 42183 41585 06187 22068 54107 09449 34438 08270  
03825 23606 15148 44691 31313 04650 29671 59804 34363 42242  
45084 14263 69870 95495 18356 79193 76148 78149 53132 18480  
61144 02152 62177 19573 02069 18104 21384 22533 24821 28278  
87282 09336 97827 92342 84924 71826 29167 83759 17390 02791  
57484 97829 37675 98168 11423 40355 06427 93485 35883 09544  
26065 13255 85980 68462 69202 87893 68288 25665 22865 49082  
23108 57450 18935 44545 08922 31892 55938 57275 28473 19919  
26986 39927 09788 74459 94961 57597 24840 02316 93675 32754  
89260 64573 29943 36189 69176 61342 38484 82624 98236 67882  
69172 61183 54127 94596 04002 08261 92374 03590 70154 85759

45377 35982 08427 54475 78949 95118 53255 26566 41459 13110  
46921 87283 26983 46742 85024 8583?

Tavajjoh Tavajjoh Tavajjoh

11050 63884 00560 63865 59362 70176 64881 38800 32041 90657  
47265 15332 71219 43386 83690 53979 70914 77502 56460 13380  
27012 04704 94496 43042 40231 00846 70754 38982 45231 77407  
51152 17148 50955 48428 16921 52032 08454 54112 98220 75480  
14919 42717 66498 22064 26367 47169 44886 84944 56562 20253  
70601 20902 35152 08519 53340 90387 79332 49249 32848 57976  
17353 82588 00217 95195 04703 90869 25468 44833 52103 21245  
79314 46485 50723 60207 45095 91335 09265 33995 57094 27341  
25023 62109 71191 68035 28059 64103 12765 85150 76006 87794  
51748 35459 51932 69588 19198 86693 68869 32420 28973 86285  
28015 93017 16692 30367 00594 23511 40991 42407 73030 70018  
05092 98425 65280 82858 57080 93637 08123 99183 76646 72329  
82681 74050 68845 82147 16090 62165 90480 09962 37513 71564  
02529 97518 34065 02692 21514 26045 33754 05102 56642 18709  
13697 13260 54304 65568 32877 19557

Tavajjoh Tavajjoh Tavajjoh

11050 32731 59871 32400 61137 88736 68925 06082 17293 97275  
93699 51529 55116 73583 24032 35195 86852 49871 57092 40837  
62063 25304 56045 91856 35685 04943 34731 66732 32668 32470  
89873 63162 28591 27370 02316 27643 81668 66974 48620 57912  
33698 48166 88603 18097 09563 53471 73802 64639 07810 09557  
05381 84104 53264 96542 59481 93192 11851 86612 46450 52718  
74005 56387 08154 18456 02915 93565 25962 12212 05101 96629  
88029 94009 46917 88104 36046 28813 65628 58024 04478 49007  
64949 23389 59559 25652 44953 73487 74669 40152 32747 62209  
24582 31417 98155 29354 87491 53445 74597 63740 85622 14530  
64483 84956 65221 67392 13690 04123 30399 30676 48956 26016  
97464 18637 91018 44907 82849 88300 20330 22828 45696 56531  
12170 69747 66275 81321 38712 15788 50875 71188 18546 22113  
49761 66586 34441 78369 42948 423??

Tavajjoh Tavajjoh Tavajjoh

56173 29771 15005 72151 50059 38503 91745 86583 22999 38719  
67154 92847 18804 51585 50584 41529 44078 77833 10328 90703  
77140 46475 82944 28984 38723 81967 15684 86990 73952 89048  
53834 43671 80159 84226 34747 89448 32524 81594 97461 83147  
73276 06306 06361 04461 06760 86350 50534 51050 57974 19889  
14774 20438 97264 70347 70985 33028 50881 93431 46139 06031  
62500 27314 38576 77503 38494 66582 31584 66226 07741 95064  
79419 73181 66048 77173 01847 50980 87738 16642 75976 38815  
79957 70697 91744 79177 32507 80398 98175 09413 81789 03197  
35730 68704 88087 68998 63516 33852 42687 23535 94966 60737  
98344 19425 96730 98044 04603 92616 83993 34294 15153 91102  
99335 91486 48106 76780 43184 46365 48806 68260 85817 81704  
10327 14371 89746 44531 63758 99194 46410 81250 78776 26272  
27067 22963 66135 83016 37077 81853 57924 41533 76481 35601  
79171 71610 46626 57013 78078 40764 64508 69112 73070 33528  
9468?

### 13 March:

- Second and third message are the same, but with different recordings being played.
- Missing digit on message 4.
- This is the first transmission where the groups are clearly spoken as 5 digit groups.

Tavajjoh Tavajjoh Tavajjoh

64096 22521 09845 47231 75602 75347 79203 58931 36609 02604  
85268 24860 17572 02767 80285 14338 82029 30423 05338 27270  
47002 07834 19682 29118 22352 60136 12545 19824 77006 28008

99346 61682 31225 77613 24026 23047 51805 06796 11402 33919  
31108 50224 22689 21550 38045 01019 08491 39372 87991 72736  
64514 49283 20144 32529 65380 52452 58265 99415 41688 37637  
38208 04114 28395 00760 40699 70677 89362 98137 42257 47192  
68912 18406 72020 01972 31243 81732 38369 92718 57068 02568  
96870 59483 10539 17940 48042 04031 92627 80758 32262 34189  
26671 13634 71127 75584 05026 57860 64195 65913 38306 75715  
61229 73630 60795 39454 31450 85067 62136 34886 87452 88710  
73855 87043 73096 55258 03522 02558 28177 24581 39558 15541  
01956 73499 34893 30506 43869 47819 22470 75807 68856 14648  
37355 13591 51974 50562 45498 83612 52492 12615 36425 04831  
81079 45924 99646 16998 67016 21473 06712 43063 31938 04991  
00719 74691 16301 05637 12783 38026 70750 98951 63640 02815  
54562 69895 62773 05409 10724 86422 32755 61312 28734 25875  
25938 50098 30305 54261 69100 72463 59374 16422 48776 23119  
25839 41003 07561

Tavajjoh Tavajjoh Tavajjoh

11050 90128 34754 91501 68518 85879 17700 76355 22722 98463  
22722 92424 79792 45176 74703 00068 90826 55974 25428 60670  
53557 29765 16640 46294 55200 77240 71754 99878 37424 30179  
08802 12421 83945 97486 64049 45181 25523 51197 45870 89717  
56044 62691 52519 13590 37256 83797 15896 04124 14494 14953  
44266 85373 97019 09928 74245 83958 30239 48020 02235 07698  
09630 59412 92206 82429 90132 05719 82644 11588 91431 52410  
40235 01376 26633 57229 81004 68502 54439 72483 55851 49783  
45081 89701 38640 05223 25739 50118 78738 92937 12131 45737  
11901 81963 62936 37927 16420 97694 63774 05046 57086 80477  
86132 04786 48704 01217 33566 52320 65026 10336 61217 87456  
36923 45770 81479 38389 52524 29075 93516 88587 53327 36915  
39438 47231 70198 14078 94015 74882 74775 50943 35414 35831  
16790 69734 91290 47108 31522 77923 76591 67235 61325 20610  
65974 39602 85576 16160 73550 49569 84474 34457 39439 81642  
29598 55637 52474 38942 40266 58330 47657 16416 36869 82401  
59823 07911 68758 13863 73703 58633 0553?

Tavajjoh Tavajjoh Tavajjoh

11050 90128 34754 91501 68518 85879 17700 76355 22722 98463  
22722 92424 79792 45176 74703 00068 90826 55974 25428 60670  
53557 29765 16640 46294 55200 77240 71754 99878 37424 30179  
08802 12421 83945 97486 64049 45181 25523 51197 45870 89717  
56044 62691 52519 13590 37256 83797 15896 04124 14494 14953  
44266 85373 97019 09928 74245 83958 30239 48020 02235 07698  
09630 59412 92206 82429 90132 05719 82644 11588 91431 52410  
40235 01376 26633 57229 81004 68502 54439 72483 55851 49783  
45081 89701 38640 05223 25739 50118 78738 92937 12131 45737  
11901 81963 62936 37927 16420 97694 63774 05046 57086 80477  
86132 04786 48704 01217 33566 52320 65026 10336 61217 87456  
36923 45770 81479 38389 52524 29075 93516 88587 53327 36915  
39438 47231 70198 14078 94015 74882 74775 50943 35414 35831  
16790 69734 91290 47108 31522 77923 76591 67235 61325 20610  
65974 39602 85576 16160 73550 49569 84474 34457 39439 81642  
29598 55637 52474 38942 40266 58330 47657 16416 36869 82401  
59823 07911 68758 13863 7370?

Tavajjoh Tavajjoh Tavajjoh

11050 63884 48900 38268 58727 82112 52820 41736 38314 53862  
71553 63926 18118 01494 16406 01223 80118 67597 00103 15659  
71593 80629 32593 34162 76470 24877 56411 70391 88982 37606  
47702 17535 11843 81100 18508 94744 89281 43639 77143 26580  
27546 11979 08557 45129 50217 39354 88956 55416 89797 82577  
19684 08613 86038 75464 36631 81963 81818 12764 04906 13569  
86212 78204 25325 74841 56424 91635 69015 18921 16325 51079

29088 09292 46987 16573 30650 52615 08079 01864 74876 71347  
42989 36768 85387 44248 52962 97066 57206 49632 49978 46181  
28611 63679 15904 50365 31159 11203 04619 46725 84991 85292  
14704 83876 43394 61722 11840 97402 05128 06443 05521 08826  
28342 52676 58630 21475 37142 56530 48169 08295 61414 02472  
52493 57613 38293 97685 77512 47930 44180 47217 04695 39342  
07812 99659 79277 82782 20356 2841 10436 16465 84932 53406  
41457 78303 64756 15098 20568 03490 79712 33762 97593 67402  
39572 56990 69655 97487 03952

Tavajjoh Tavajjoh Tavajjoh

11050 32315 59086 38360 17863 78242 55403 30658 96055 44743  
78914 55120 87043 96818 34866 75723 50892 67189 93895 82484  
55176 69346 51856 06761 04119 93373 92980 91038 38689 36971  
03641 34708 18195 63510 24994 34047 12761 45683 07195 91997  
68970 64495 67165 11859 65479 12040 45586 01215 76467 61792  
32291 65968 80711 41751 22154 30931 69836 06588 19438 52558  
58920 32841 22761 37256 80237 44203 50905 38380 15036 45691  
12265 75395 78291 71177 96057 66479 43827 97416 91632 61981  
99484 68497 68533 20415 37251 51251 42156 16232 34400 21050  
02697 35815 21574 30625 74203 83591 60769 42625 12286 26936  
58646 96873 72121 83966 00936 32235 50755 37702 31788 41062  
55762 63181 09391 60224 51446 64267 47130 66793 13441 92713  
57852 24551 42357 97788 76951 51608 95237 57130 46183 75478  
14078 27972 87034 95902 78724 99700 53887 17241 46121 48779  
95114 35540 57575 46797 46435 58281 15045 42189 93981 52860  
61437 89127 23549 84804 39361 02732 37317 81573 48467 97545  
06926 56632 42635 36280 91323 58167 73672 07725 91528 80676  
56763 56023 32547 76850 48877 90217 88295 86375 36420 18489  
64284 77337 62382

Tavajjoh Tavajjoh Tavajjoh

56173 29771 39033 36174 20120 90810 94509 14235 77106 27168  
25537 71527 49943 03539 18871 64027 86282 83134 03878 39758  
71233 77325 28331 90932 76441 45389 62019 10862 83305 33765  
33765 63003 30554 19246 88330 80736 87814 83811 93894 43551  
07183 49665 07055 98014 10300 59020 54290 87740 67249 13500  
86506 42857 98740 01065 87946 49311 01349 23262 01814 03476  
39027 64367 50336 49595 91059 09949 92651 93002 76451 81409  
40810 25530 11097 27190 86472 95654 65593 69527 16268 11479  
15798 17097 53958 84026 61961 38740 06482 93593 86138 90804  
79141 53975 05926 92258 69035 53240 03265 34630 57651 50818  
11350 31821 60626 64558 68943 80055 45004 94764 15708 90772  
18662 28286 80569 54340 51734 82814 48443 97818 46294 24397  
13402 27913 34093 63698 66113 04718 11228 37149 89203 35441  
41928 38170 41446 42400 55172 09121 81933 96780 99242 58142  
25437 50550 57290 10923 14087 39464 78117 03915 83901 69275  
51166 41449 15265 79576 52386 62809 17158 42734 73442 31371  
00490 21716 88247 00810 24936 09596 37791 51693 89237 53977  
94431 08349

**14 March. 6 messages, no transcripts available**

**15 March:**

- Second and third message are the same, but with different recordings being played.
- Missing digit on message 4.
- This is the first transmission where the groups are clearly spoken as 5 digit groups.

Tavajjoh Tavajjoh Tavajjoh

64096 22521 12093 71503 85153 82671 81952 63521 49357 19832  
63604 40892 48720 43427 60208 22628 40061 37912 93370 10377  
28838 51036 35676 80211 89544 54101 47148 54275 23466 21154  
23265 87047 83625 43199 29713 66064 69377 56168 58518 14778

48061 45226 00270 13236 00647 20197 15275 18947 28415 03128  
80796 26428 53706 46776 53453 80436 42764 78457 11308 95743  
20839 89518 47538 64664 52609 84183 23530 31300 10724 20736  
08628 66206 52137 51192 33485 71476 95864 09348 37768 83698  
43527 93569 15968 16737 21299 80189 41860 05685 65341 07568  
25466 81657 73997 46128 34259 19528 05922 97746 37264 87584  
05635 64231 90665 24659 39686 38991 33948 56136 57848 70743  
55230 61724 55824 81883 79517 51187 39817 78733 07421 57926  
89896 56220 18729 28471 43894 72638 61191 26985 34957 22877  
64588 23757 94841 98375 71057 96136 58018 93433 85454 78201  
62492 39019 84554 76267 36034 26327 82823 66967 19078 46943  
26585 53372 07310 23697 02360 75665 69550 14735 09006

#### Tavajjoh Tavajjoh Tavajjoh

64096 40553 78694 64872 40370 75284 72679 36385 93885 89094  
04385 36397 97264 66945 01079 98214 95233 84879 03512 71342  
72455 60874 78826 61919 46786 74820 40232 22599 77201 09584  
83944 37548 96795 60681 15371 48826 28980 59782 57354 87853  
17199 34582 40069 41844 14642 70256 99018 14680 24198 50447  
62426 79240 90087 85829 16173 92833 03962 02344 39055 00782  
51880 93594 20338 02835 65481 95384 72430 59684 97141 43966  
76978 54437 64979 22098 85379 07797 12717 99230 46256 11090  
65350 34841 30730 87575 24516 76755 05961 73827 88313 01868  
52008 13081 61209 56050 63993 30707 23420 92598 33505 03147  
29902 89657 02439 50067 65681 31153 14626 33713 59878 52901  
61330 86536 31874 81009 30801 13968 90808 11693 66104 69268  
51295 37936 72890 74483 81246 59959 15910 13318 03717 05466  
30221 90520 76113 24402 55151 06076 81244 36918 10270 34659  
18787 74042 46703 46099 64960 20354 97024 41814 71567 50834  
82974 57101 17587 14040 25221 850

#### Tavajjoh Tavajjoh Tavajjoh

11050 90128 00023 27232 98495 27872 38669 84931 64719 72079  
31811 83161 66797 12063 37817 64292 64877 89095 24310 76192  
59225 89020 60554 42090 43902 80766 36140 63627 48653 66392  
37957 37569 10119 06909 34973 81682 30882 26212 96978 40438  
77453 39847 54601 19922 11320 62534 20063 26925 25789 22844  
53416 18424 38713 83503 71189 25786 88740 89166 37524 14949  
78688 93216 05483 52449 09123 26454 38131 25583 73331 47354  
37351 70019 17315 15592 18738 25239 93175 04327 13893 28516  
65467 68920 03264 98169 32416 41547 32331 07340 13548 12291  
27364 10312 58590 94335 67148 60149 67511 52934 68119 93634  
98369 93213 54065 45912 83853 03251 59401 54569 36687 19739  
85991 15563 35768 22573 66021 29021 77467 31164 17437 85132  
93326 59767 24120 41744 87002 57396 45856 19757 63671 44718  
05751 66190 16849 48238 22191 38314 35268 80851 79033 61825  
47864 31994 95851 28846 45574 35785 19910 40614 08923 78068  
22002 50556 16838 431

#### Tavajjoh Tavajjoh Tavajjoh

11050 63884 68756 54559 02031 60237 02972 86647 86841 36410  
49945 49036 54173 12890 29897 29374 41592 76761 25714 19298  
74663 43401 24877 25538 09514 63251 32672 47049 78198 94066  
19256 97515 49042 82916 55154 46152 81383 09773 57998 39817  
75605 50185 03392 76580 20766 32441 73194 80021 04196 71797  
15956 38580 70834 80595 76638 78027 68954 09689 92404 05299  
06247 16425 66381 50494 09095 22790 62946 65381 19934 13717  
05041 94143 80261 70260 04773 70843 92827 23462 84962 33460  
88187 05675 81918 12663 89406 95603 13814 77105 87212 44970  
34379 52522 35919 12782 45108 58865 25125 96521 01858 23371  
13503 70840 92910 05270 51326 02727 89938 96783 67845 36590  
88930 01053 00626 69533 05683 59868 43808 70336 70397 67255

91064 78764 14290 91340 54484 32895 24099 33628 90812 01157  
15114 48982 15581 37830 28247 12297 60241 52593 86375 284  
03768 57359 36514 57700 41172 27242 71340 34138 75399 83006  
06980 21534 31302 12250 18014 41169 02653 81277 24086 87992  
25984 81907 81464 77590 04483 10451 19383 51280 51466 17769  
96049 31301 37509 18807 62422 28376 03814 29707 63601 04279  
61641 69676 74936

#### Tavajjoh Tavajjoh Tavajjoh

11050 32315 58904 40109 46344 64031 64286 65044 28808 02928  
52622 14992 75449 62573 73740 47929 33694 26054 78450 45767  
19167 56616 01261 28091 88580 33763 36508 63152 73177 94177  
40731 71414 95524 77519 15344 12995 62686 94424 99108 54088  
40505 60361 16499 01875 25096 82592 76855 02441 56943 20646  
06484 85259 04723 12044 72652 26633 49393 36679 67845 94147  
02480 93077 53747 81759 75223 08965 98903 46373 25772 98463  
76960 76225 98592 77490 54857 14031 94147 70782 03226 03262  
59716 53383 93680 33930 67733 81276 58537 15840 24953 12823  
49658 90500 47441 12250 87070 41398 47551 61686 84997 23072  
44680 32233 45767 36328 17581 38993 40906 61934 36821 13401  
49521 83957 52328 15217 22950 89944 50581 69330 70978 49478  
87832 24144 80834 54405 03181 92491 15828 74932 95373 19447  
68577 93546 82936 65915 80835 51678 01572 69545 14369 66327  
58583 88128 83162 26512 56474 16210 08862 51405 31477 12722  
68627 96524 46170 04558 80985 36573 02978 39540 98792 36464  
64724 28661 97481 28845 08007 89941 79374 52962 7

#### Tavajjoh Tavajjoh Tavajjoh

56173 29771 13454 90561 20898 69900 76764 05785 10767 50725  
24723 11270 63341 03518 37008 35325 53605 81466 71835 16898  
67834 14896 60305 28321 25765 95006 70871 32708 39485 49078  
42605 67455 37596 06894 51509 01478 80034 39534 81832 35537  
75877 17309 28655 33184 46045 08091 05030 17691 64932 60806  
96676 85836 11698 58121 46929 85939 74576 95828 08828 51639  
24741 90015 37643 82271 57005 51432 07381 47601 95483 64230  
52366 79843 72810 69081 71392 32878 28936 67982 33515 92448  
53635 68070 66513 84494 81380 99480 08695 62783 90188 73808  
27192 13359 53922 68602 63962 41007 27035 33534 42879 95806  
86088 56923 29244 39690 96967 10647 04654 68799 31449 89863  
47757 19126 99671 50446 09692 02175 25351 85208 86917 76752  
81342 88691 28996 65699 71687 00596 03146 52488 27663 81101  
04626 20824 69532 12606 27453 59138 60536 74728 45276 00267  
65941 39758 39609 73697 15776 46892 93056 65844 78275 37241  
50277 64500 29459 22491 35932 57878 87763 358

#### 16 March:

##### Tavajjoh Tavajjoh Tavajjoh

64096 22521 20930 24667 46941 09561 36883 16623 47417 65160  
25659 81331 76923 62339 18913 80518 87348 11088 00998 64768  
78821 88972 82214 37115 95277 89954 43164 20947 57346 52568  
46230 47632 02957 37399 23825 24375 36751 44647 56144 89875  
65467 61400 64815 61024 19441 28134 77309 46291 56631 20051  
48632 71211 96764 60040 70500 92693 27840 20414 24520 47691  
42328 49201 71331 42815 91074 85221 47098 69883 83763 40716  
93978 46818 30350 22417 45983 99267 60381 09474 00776 26102  
93812 70371 43711 01530 33594 52146 76991 12748 26263 51993  
96098 19059 60387 69439 89439 34011 86231 66326 06490 72929  
52975 91133 10904 22185 91815 67319 40535 77483 48982 93912  
67709 91262 33171 79141 17756 28968 13231 94710 94788 25326  
37361 44288 58942 53385 22312 88458 31002 01060 31760 43845  
23626 98073 11077 94836 55750 48236 83835 04428 23130 44728  
64012 36129 03832 56049 18488 08672 76266 32440 37826 34084  
19481 31418 35298 19305 56581 23558 33453 36845 57043 68690

28252 52104 91336 84523 89114 74501 31187 76570 70700 14761  
05785 31439 36090 86694 72579 81041 20152 94228 81035 10293  
70620 2526

Tavajjoh Tavajjoh Tavajjoh

64096 46553 37869 56320 30439 27029 26084 49974 73370 18625  
82989 10608 34047 98469 58016 80306 33561 07076 52008 41925  
09264 19009 42060 95261 89454 43276 94556 12314 83725 46462  
07188 25152 21699 28119 35471 61608 45405 61523 29662 56634  
05225 16497 45210 56488 25675 38833 85231 15734 38173 36403  
62724 70238 72146 00478 59285 09428 42939 17828 80840 67857  
12450 07585 80173 91806 20060 21102 51548 36192 92870 08941  
20148 82189 03395 01552 29603 68726 30298 03145 18407 48948  
20876 46273 71800 79815 43695 32680 49818 84772 41822 35155  
00740 54773 05025 28662 13136 85095 88639 70365 69029 43077  
39912 45289 89035 20204 12658 45346 88282 62526 95572 36161  
73058 16105 41180 24775 03767 25961 75440 13682 20167 81424  
71805 19387 79768 91098 67030 99287 60615 96614 97811 60502  
38082 31711 54430 85095 89735 39004 87061 21257 10581 55293  
32931 99850 36006 84852 62349 74271 80387 21735 24241 65607  
71921 67381 75687 89933 23352 85412 12269 76925 59511 98588  
48174 71588 74712 04905 98588 40400 78437 69251 91122 99655  
00251 47404 81406 48460 73747 67622 56391 33798 18990 76200  
15859 70798 62343

Tavajjoh Tavajjoh Tavajjoh

11050 90128 34985 86921 72059 60947 79058 14884 28756 85420  
66126 59557 91810 67025 12061 44112 97214 78339 11232 06440  
61443 50924 60018 93220 90520 45036 01498 17270 06458 07314  
21684 22331 04871 32257 50727 63809 28014 45054 46520 57503  
58744 35612 27077 82798 81763 61006 01900 39656 67616 85608  
91385 23691 44110 75890 05203 97784 14674 07512 00797 56271  
39787 69940 51857 22931 26436 91463 49071 29334 86410 66804  
46691 80805 04152 81706 11550 48135 43642 99695 39442 53631  
38256 74637 08328 03269 80178 95132 21315 78008 71677 91851  
95943 06845 65409 35884 68930 30182 14937 00623 73253 53403  
90465 63637 50081 22838 64798 97373 07058 86828 39096 97469  
27768 33988 44155 34772 06031 57330 28397 57261 22189 49798  
25361 85547 29523 07725 24296 92619 59153 28530 97542 97504  
60336 07526 79889 93229 70162 73805 41711 41177 25797 74992  
47489 78165 35625 21145 39388 03896 79833 32638 92107 15756  
07684 04943 86564 95225 40657 66265 86067 18961 61724 36630  
39183 19350 07951 72057 57579 37286 57067 02247 18231 06393  
49557 93272 86127 07326 61363 97869 46546 61224 09972 26271  
85929 45861 26053

Tavajjoh Tavajjoh Tavajjoh

11050 63884 94565 96076 59040 34258 31902 72671 24246 36258  
94840 89948 47832 89416 01247 11327 60485 65680 55930 16018  
17876 34859 49158 93171 05357 57077 59179 51491 33062 69880  
96753 63299 08791 36235 84514 32904 27365 08706 08892 64312  
69629 36334 05069 19149 76590 32075 48962 15143 61628 75548  
08466 31670 31864 03870 06355 24883 87547 15632 23483 47312  
99521 92324 76558 21578 31150 53145 74432 75573 10825 16097  
28470 67746 34803 37422 52201 59607 60461 74378 99476 56440  
24199 65383 51612 59035 94404 44501 31816 20836 55600 92447  
23051 28386 28452 59126 37758 19483 00223 72465 22879 38804  
29136 20870 93203 95378 70860 68429 63768 82066 71094 90833  
70205 60023 56748 12233 80783 86460 63351 35354 60609 82038  
15852 23952 92708 36557 33668 35674 07167 41142 05100 27893  
87856 89837 92715 59481 26713 60336 86149 44280 07495 73918  
68874 76931 55802 86782 29721 97796 92670 98192 59306 06964  
31368 86197 34329 19874 48778 79814 30248 13311 93996 32716

21195 14674 75576 51968 70538 60507 19623 25902 16253 62420  
87116 23381 78972 51685

Tavajjoh Tavajjoh Tavajjoh

11050 32315 17389 32461 29275 98549 08943 04149 47753 43472  
56855 40181 81343 99387 97252 73648 34215 10075 26883 52124  
64802 86059 92687 00577 41084 34859 24705 73189 48364 26858  
72100 41900 13892 17136 01735 63890 52347 28356 37349 11606  
19282 64497 12970 36124 29594 62907 19221 69975 64914 68853  
36859 35155 20801 34398 37348 25748 01287 62776 88113 45917  
84339 34248 42846 54230 64244 64226 98077 98656 49853 07449  
30792 51148 95091 58080 79786 19897 68416 84862 07962 41457  
58212 14813 24078 43474 95350 56214 30260 02138 62617 51192  
52703 74905 10220 40770 01533 80559 81686 81710 77667 31013  
22995 07766 96391 99650 79780 26836 40650 83717 68321 63408  
13817 85270 54867 55315 74817 58075 91223 04639 88974 13555  
99162 11019 72239 49017 93786 32247 29865 10361 01401 65028  
00589 24587 53160 47917 52285 38998 36801 86272 08163 31982  
45237 24967 64519 72577 15959 56745 71193 34898 46512 08136  
90200 64759 14686 77087 49750 67874 39649 55491 95801 45188  
52793 53197 72407 61550 4529

Tavajjoh Tavajjoh Tavajjoh

56173 29771 17645 35284 54646 39899 46455 05945 77082 61919  
03721 38597 20372 47612 56639 25845 89730 86620 25523 81123  
30392 19247 83924 91889 83967 17671 80975 80425 66055 75895  
11585 43014 35540 48745 37540 28253 12628 35246 47739 47763  
52698 01488 72508 24250 24885 09473 75780 32981 87318 49446  
80889 87238 65400 38634 19848 53649 68614 40110 93567 18500  
16020 30670 10531 83603 11601 03743 00302 04548 60836 85526  
70327 27573 37528 36836 88689 22669 77280 17268 32856 21101  
28929 59562 71714 47959 73112 00922 78094 54949 26015 47996  
62343 18596 14620 80675 64760 58298 22369 73670 06335 84381  
73785 77148 02540 68770 06393 75408 72199 07821 64225 80828  
54326 01391 98647 36542 73448 71815 74064 05804 98819 69079  
38385 30385 59519 42944 76701 41186 09968 66437 84239 40112  
50710 58775 51804 50011 89800 46479 41310 77389 57971 07628  
04914 64809 36821 60285 73248 23930 46530 35575 20704 98503  
49813 59773 49878 08589 44049 09552 23192 15403 81781 95014  
33090 69714 07887 47574 56464 54147 40954 05661 18649 47505  
27007 467

## 17 March:

Tavajjoh Tavajjoh Tavajjoh

64096 22591 19347 13702 16678 47593 84611 64014 89558 93992  
81274 43928 60550 89546 86136 24794 98560 47263 83051 74746  
75078 90060 84910 68400 16964 18157 93862 13556 35229 80554  
13240 39743 43153 25112 87941 34401 27217 13145 43795 78635  
88239 75398 25326 09813 42377 35476 68448 62379 02669 09679  
47261 59744 11422 81391 27643 40960 07265 78754 12530 04714  
12184 66489 20515 31635 48746 75795 89446 74736 37536 60407  
97630 01101 99408 04720 65490 97329 60404 64578 54756 74715  
06752 86823 40911 49224 71853 73418 71941 23345 19206 50601  
31426 13220 70178 58801 48982 29068 16171 10848 91706 45064  
64596 54256 90105 20092 57600 72170 15991 23834 47958 36109  
59200 41855 22002 71041 96637 79484 38621 87158 05633 75849  
28839 56620 99121 27769 34454 35403 49944 02036 19561 96892  
04099 84467 28958 94502 71401 51741 04466 39681 85129 41569  
95567 72065 85271 42143 23486 67624 13094 63233 93745 90567  
93634 43496 86389 83494 58811 42979 39484 03802 56135 98276  
04451 68001 87432 25619 20334 14005 16556 48344 75679 97696  
29274 84465



Tavajjoh Tavajjoh Tavajjoh

64096 40553 64300 72689 55721 13819 66823 10863 24583 19030  
72806 79540 73696 54992 71783 61325 89617 25458 30369 53868  
03561 80930 27177 01016 61931 66475 13969 79237 04626 57645  
77621 96297 26257 36914 66471 55950 52730 01465 08409 70192  
48890 18045 42579 49872 88482 15676 79020 55602 79644 63020  
44523 79829 93505 39885 22527 45515 72461 31625 45224 33548  
32540 07458 45498 64432 73855 03495 18949 25768 00704 93877  
91792 66218 14207 72737 59476 89224 90746 29214 47611 31441  
59294 01044 50754 41449 29256 58800 41867 47199 74840 13413  
95127 31105 12445 00127 61209 66885 04332 85753 44183 42243  
73659 93509 67748 84387 37154 84362 81077 61590 55927 52833  
81424 49659 13024 67007 06425 28051 78453 87534 42307 08954  
27481 06865 54997 07728 23043 50968 99573 81730 44009 24297  
82946 85113 30580 70253 15211 69053 04794 16261 81311 41165  
64147 79328 92539 40876 93289 61192 07264 97907 46944 18371  
44381 22515 76032 33192 66248 04223 38944 20846 96925 13909  
57510 25474 13942 01916 84728 24281 01026 66887 12119 96189  
05080 41506 17455 42052 06149 03692 11026 44609 50848 10153  
02037 54419 47374

Tavajjoh Tavajjoh Tavajjoh

11050 90128 09192 58399 27390 25848 49789 17597 31025 49849  
92756 32537 04193 37728 68318 29309 87594 53515 17280 19815  
93854 50235 59436 38931 84795 64731 43863 17604 29609 33529  
51714 51918 00564 25254 72122 95921 86707 24303 55474 36284  
23563 01735 25880 08627 32846 80641 40624 84920 36571 18362  
48194 73678 02205 10146 36838 43985 06432 83748 40248 99078  
35705 92458 64001 78168 22791 35740 82038 43477 09295 00508  
83099 07715 52096 15849 34059 59682 91364 43419 29378 08925  
25719 05183 99505 32982 08910 46989 33718 49174 33174 72943  
74360 55106 49969 43510 80902 43018 23412 82397 10204 53340  
63879 43180 25456 11939 55699 49895 30859 60636 85597 24527  
40539 21236 90534 13932 24162 23359 53188 04497 95211 41840  
41300 68773 22601 13114 14320 44983 07619 86747 37487 15193  
25027 64611 31855 13795 90853 97763 89095 56794 84230 58656  
32768 71007 46639 32281 52964 12315 41195 48757 37906 94680  
99604 77457 82703 14345 08714 54721 18648 86085 18906 83403  
12455 33230 20583 70843 03153 89854 35564 72398 98558 71721  
07324 57

Tavajjoh Tavajjoh Tavajjoh

11050 63884 13244 21860 16460 43784 37326 88671 04960 05488  
55767 12742 44618 31923 59420 84625 25746 19187 55871 93756  
14141 69280 88115 80563 35148 97847 75318 93625 83277 92564  
96560 91937 73765 71167 56486 94471 64092 29619 23833 10209  
71037 28713 16433 83698 51168 76624 03301 99376 25828 64529  
94149 13887 70266 98302 89136 50385 63258 26015 99786 77534  
64243 94128 75691 24119 65598 99235 27278 51059 39718 91463  
49394 55096 37488 68637 60298 89686 47099 00411 63401 05946  
84684 42018 00187 63326 82272 61542 82218 90723 59281 44563  
51374 43776 44512 32023 48574 35737 44195 77653 74928 49622  
33681 13264 65137 12120 77484 75902 49604 66343 63420 24547  
01203 79804 17669 98245 74511 28716 59768 55858 34459 50413  
55174 78349 70936 87921 99356 56692 62376 08156 52385 50019  
98873 41497 26651 80593 60549 30132 04396 56346 47891 02566  
51101 58271 70281 52345 50923 65071 08011 89039 90375 76500  
78098 02263 38567 05692 67409 49716 52792 24850 14958 69526  
29172 77621 42472 43955 96800 54516 25669 184

Tavajjoh Tavajjoh Tavajjoh

11050 32315 56310 90968 45834 16443 32648 42881 80256 33921  
99266 17321 81581 48058 22115 35477 18307 91890 08378 50685

64474 99368 15873 61982 83209 69811 67510 68303 73603 55973  
56266 33537 51466 52257 86378 40942 74209 43773 03570 08583  
47117 94683 58644 50974 62370 68073 20848 73631 70404 67780  
23321 98029 78621 92599 23856 17321 69366 77533 29534 50652  
00934 86117 96064 95256 00428 46101 32867 95442 76110 22913  
56919 94648 74712 97379 41586 72754 65468 13314 25262 54985  
67513 77943 83022 89565 16787 99028 57687 12214 83160 10182  
83020 87007 50280 31486 44281 65899 57197 62497 57749 61398  
55439 59719 04755 25092 05942 55761 81960 96720 76390 57052  
04338 94869 05899 23891 85125 98109 39076 66464 91682 71993  
48120 18692 30848 31039 29372 90537 51436 91463 32751 62739  
36102 81491 46736 43793 99702 68675 18260 53645 84255 00612  
99130 36918 25747 32017 57278 84232 63516 12355 48903 92981  
95364 69188 32025 72038 63613 84641 94900 52508 13892 91752  
63893 79309 90085 74817 72294 0

Tavajjoh Tavajjoh Tavajjoh

56173 29771 97869 23292 74858 51412 52002 18775 04201 42365  
56702 17044 99565 61442 30432 85665 17210 73450 86036 33190  
37995 70864 39927 99492 76173 42287 86839 98018 29626 89506  
82924 06335 80016 05729 52065 15101 85669 66747 37084 85308  
91721 23880 30455 29806 80513 08104 48020 43655 93873 62847  
30848 48723 40068 95783 73822 86612 27285 02951 28355 40463  
44611 37329 15158 36449 29350 18755 35819 20439 04243 52574  
48207 94767 57822 38363 68232 70831 14259 43393 02587 56923  
98381 57578 44665 31553 68792 09610 67182 15459 41086 21351  
16098 40140 09070 61656 35573 35135 87602 80544 24344 91771  
39805 35253 74994 93574 66725 95771 78862 55625 04718 84010  
02681 59210 25009 45825 83578 61882 12080 24289 42151 43895  
21343 91595 02114 46457 38256 26359 75327 93920 61232 13206  
42839 32988 55275 96759 72020 55853 5910 918937 09140 42040  
77334 09393 87630 60995 18066 76996 82898 32988 59189 31278  
86981 69191 13317 68037 62983 22507 29837 83946 38077 95258  
28621 30903 00948 17203 40074 15614 13434 50441 17391 81064  
86533 75052 56547 50550 76249 86411 29803 39936 56692 02973  
45147 75751 14488

#### 18 March :

- Moved from 7842khz to 7910khz.
- Transmission length extended from 80-90 minutes to 120 minutes.
- New automated male voice.
- First instance of an automated sampled voice.
- All messages are 183 groups long.

Tavajjoh Tavajjoh Tavajjoh

64096 22521 89765 22059 14468 95982 42181 90922 31380 94236  
47234 82928 63527 58361 15408 36451 97807 03408 26842 91149  
19172 77313 52851 81954 91773 15063 16724 72533 75894 61242  
79773 91503 52889 40068 26612 85430 67441 96846 68245 45028  
01057 02863 92199 65236 51964 02859 41694 53457 37144 80739  
82335 97808 85436 96706 06098 07918 90048 30067 56612 33664  
99018 54913 21906 56253 16912 16128 76178 13641 02585 18328  
71268 97485 68462 88661 73495 73168 63148 09663 40878 75966  
97309 56149 24091 17663 78554 26071 06781 10812 59396 21095  
71021 12041 59651 18579 38800 67993 35461 66732 84823 83833  
92053 79588 60860 24057 51626 71699 08283 07067 65502 23934  
02911 38146 67712 58540 46265 54852 38293 52081 50396 64075  
02067 00158 23619 47322 00531 38031 83324 33233 27108 41553  
56420 59226 12329 74728 52582 36469 60171 59763 74155 36294  
94415 44216 50382 29832 30421 27327 68244 51096 89755 02278  
83362 84318 94012 07337 00732 05172 60365 42877 55147 96506  
06380 53318 78083 72302 52204 72066 47916 46183 62679 13664  
10038 25008 96910 48647 94330 73766 16713 61567 46788 78295

Tavajjoh Tavajjoh Tavajjoh

64096 46553 16223 64090 10435 98548 96272 68107 92993 67828  
 32161 22328 78896 80959 24050 62621 78596 63514 09453 58045  
 11271 70339 04589 09391 20379 21053 98469 91252 96443 91367  
 27141 89118 12216 99838 76633 67069 29070 27058 57701 15993  
 85696 70879 05621 57434 18756 94017 71363 09476 40717 00675  
 54604 56092 04973 74820 69390 37911 76979 69269 61945 45954  
 23605 35199 44219 07939 65640 02046 61081 25680 97041 27674  
 69028 40102 25825 47738 24996 24197 90921 95990 18412 36057  
 78089 70950 74694 29549 85187 72929 60450 39595 25385 76277  
 08132 02131 08281 23746 50437 29190 78847 62589 03353 52701  
 16296 61057 02707 42396 82892 88358 48520 89755 11638 68492  
 88316 41463 90996 42712 45930 86278 98836 02595 71817 98154  
 33205 51031 88109 30342 89763 37697 11348 91416 36961 59407  
 99809 29617 55921 08905 64677 82863 93041 62046 05394 29870  
 87690 29027 78481 65892 21854 11500 71457 42307 75274 41041  
 55262 10036 27683 27715 18611 95496 39288 67977 97885 87452  
 82925 61025 88917 36786 12550 58200 19008 24597 37438 17967  
 47679 22609 96385 56230 60420 36683 06121 68706 93696 05108  
 93581 21138 84942

Tavajjoh Tavajjoh Tavajjoh

11050 90218 90034 67522 79648 35532 70271 49125 33285 70723  
 14154 61394 81029 54900 64365 07698 46984 03520 41450 85899  
 29565 28993 14541 81059 39147 88117 51474 59057 94754 41684  
 22004 11584 40945 32994 14707 89262 96626 21527 30026 44969  
 80919 53459 23486 32493 39523 84599 23175 34006 13116 77824  
 86059 86053 16503 39790 01990 02242 16924 81852 33920 71664  
 45068 82797 73428 66280 74681 18241 52250 19519 31045 87185  
 02092 96018 56591 10606 10139 12968 92701 97701 80565 41202  
 26203 10801 72339 37407 66164 68117 43441 80014 11277 56256  
 49618 52811 92189 28496 44805 77195 48266 52803 06725 70296  
 93108 58972 93883 72952 27939 90839 57217 73710 27603 17737  
 70273 45398 89488 57670 79645 34814 94549 44130 51762 52641  
 54486 68655 05007 46822 36471 62906 15146 20941 25052 07907  
 25291 57417 53236 07171 59173 35250 82856 21233 53924 11694  
 65945 41866 77618 63093 02322 50027 03546 16731 10317 76152  
 15069 10428 61947 94270 58991 47730 98710 25985 68448 88261  
 17756 74200 57033 46047 24636 04786 81645 99791 13870 91125  
 63130 79197 96634 72282 95789 47962 01875 13878 05271 25800  
 31164 29348 75409

Tavajjoh Tavajjoh Tavajjoh

11050 63884 02487 74405 08663 62168 73880 49138 11934 21084  
 12680 26806 24923 17862 31049 41283 24040 35643 93124 24151  
 67024 10600 49627 92232 48464 68996 46919 16614 85680 77653  
 64478 99227 46412 17335 23895 88604 78272 50485 60036 93328  
 60230 56909 73193 61124 58002 54489 31302 94790 85770 72699  
 67260 10656 45810 70823 74978 79187 92912 56220 88391 09692  
 94549 25803 31369 10176 06256 56303 56846 54629 75793 77828  
 27647 26691 94122 76535 87366 41547 93123 57533 01570 08193  
 86768 41834 02786 68110 14995 70631 08894 37374 18230 64264  
 08393 02429 56800 80826 35374 02341 57961 91780 28382 86814  
 32624 26859 00697 57181 36603 26384 18674 14949 57599 59756  
 39753 64787 29776 60169 97431 40198 36678 70778 26764 63901  
 76930 23171 87967 62385 87631 79890 11339 40390 10487 85053  
 26336 21890 52876 46982 21748 04289 41871 42027 17625 71328  
 64792 61644 78614 91981 79781 36649 07584 29298 58426 44832  
 16061 71436 51762 31636 01026 58734 05083 31001 84817 08181  
 36300 95485 43709 61096 05707 95341 69170 94996 85717 76297  
 07181 07627 80442 28760 65297 30291 25537 68737 19567 73014

41139 18466 24068

Tavajjoh Tavajjoh Tavajjoh

11050 32315 36672 63390 25729 57100 93563 69706 09806 41079  
65741 42834 98730 19341 58457 24700 13985 12179 80375 40216  
29694 10857 03884 50927 04082 23185 50061 25925 67661 24645  
04364 83757 16588 21605 11607 96157 18078 92936 77225 73605  
00435 56499 34408 29153 12427 14765 36036 69138 42014 10346  
20017 33609 68638 31402 39212 79302 57860 22937 27920 57252  
42296 97312 76144 64576 44856 41922 48712 14146 00607 39216  
58275 01350 63605 42692 00475 00408 92308 04220 15410 14584  
55029 48731 40729 34298 58701 33640 37816 44652 46868 20390  
45636 04176 18085 85916 68224 58465 23907 04117 67669 62854  
73811 75256 17514 18166 91659 11217 71513 68814 06725 20856  
56911 73272 77345 83765 01225 57200 69974 48068 21259 27962  
41969 96328 63443 82997 90077 66492 87291 07097 92684 18397  
15180 36878 50224 51019 90043 10058 78250 19340 35591 34153  
42986 87119 42979 57842 52824 13817 55448 24645 40191 14403  
43925 62716 22971 01127 47460 9\_200 34742 11281 95986 99756  
94896 26492 59094 13508 56248 26776 49494 23416 09565 73518  
72275 29070 35048 62718 33572 73006 26480 77655 75230 91565  
61790 62875 53767

Tavajjoh Tavajjoh Tavajjoh

56173 29771 18900 12731 09283 40047 50921 50825 99573 51687  
17110 34795 68314 33797 53484 67277 58328 84419 97166 71298  
80518 33529 24606 54172 93565 10994 21772 38376 38739 53518  
37380 80332 01414 37828 80998 34893 21398 57211 71724 59569  
82017 32059 63806 90536 39559 09675 31021 30132 62656 09433  
22050 50168 96601 76683 76805 23194 33788 30267 99423 08271  
55447 49306 98461 16910 39753 20298 84278 57153 42290 19621  
09098 69491 75589 69317 51068 58993 39058 95079 34280 88487  
83063 09306 12688 05884 77203 39441 87010 10455 33604 05883  
78954 06613 41510 01765 37065 33491 94002 68440 01633 19882  
25897 58677 43163 20991 30117 82766 01269 52768 71815 47908  
74021 66925 29893 74798 53132 70100 68193 81800 24310 87890  
82405 72526 23341 39104 90639 24670 95109 01681 72122 85667  
88768 57091 85265 48183 40757 44857 28089 00351 65141 17475  
83568 17865 58055 81041 27474 09383 34645 86525 32358 82266  
47252 21903 41564 78311 98993 88312 59563 60818 87810 18521  
41656 89277 55773 49368 04779 13080 72113 43795 39789 95982  
83681 97190 41695 64705 43669 17874 90373 49040 63876 28364  
33568 82825 98967

## 19 March:

Tavajjoh Tavajjoh Tavajjoh

64096 22521 58264 78430 48651 01132 62010 86731 77494 63200  
85442 63060 82009 50540 13470 20426 05510 20687 81998 64053  
41789 43548 56828 33250 39164 31132 15179 49026 00645 01337  
30188 16262 32993 36354 56034 27132 10879 20554 98649 99917  
91824 11750 16236 81243 74710 62238 08286 94913 03240 20581  
51364 73264 99071 88853 09683 38152 93524 37288 64159 41906  
41140 26731 04960 78214 88383 93919 33197 36032 99521 12558  
74865 30479 58533 42591 49710 86403 18772 76753 47659 20289  
25801 96682 39851 50497 05628 34089 90573 78263 90702 59055  
06129 30472 62224 14223 29498 52392 81198 42317 12935 98927  
33590 76240 60428 64559 81002 32979 68925 06207 68195 35976  
63989 95408 47027 58828 58929 84902 67903 81432 40753 36571  
54362 43209 37481 16365 56854 33428 81367 78923 50093 98413  
57670 11133 46895 62032 19789 43313 10373 32353 98747 61123  
08500 92006 33505 01829 45825 29606 26339 03317 75518 81470  
50663 26659 36088 62357 44414 27276 80102 77268 02504 27675  
27058 34120 40963 90575 01682 36717 00478 26481 61722 92869

58501 86078 68890 44825 07609 12989 03374 26848 31505 23723  
51470 40414 69773

Tavajjoh Tavajjoh Tavajjoh

64096 46553 67859 20306 07702 56642 03022 36080 88706 96836  
83319 94238 63204 61557 26031 57831 17605 56657 89315 41073  
27015 50873 19521 67125 96301 72202 58937 34232 25258 81793  
92347 44328 07049 81153 03106 97884 05073 13429 79213 61538  
33784 24017 21580 78561 68255 77596 43496 26539 08485 84873  
11583 12298 06242 55918 86475 50828 45617 94863 66919 45891  
63886 22698 87524 43480 39092 57916 56202 82351 17723 75214  
55608 79763 77909 21040 04838 61179 42324 96861 51858 99685  
83179 25435 95793 14003 14602 68296 70165 14954 08552 49461  
18842 01088 05649 11254 58004 30520 57153 01939 54521 29802  
20221 66206 35078 20295 98043 42774 00159 61512 83306 09496  
50294 53836 79207 33531 73935 91235 17107 51335 38841 28123  
46939 73916 28949 30648 48752 97613 89610 14052 26490 99372  
79067 29165 76247 03002 68557 39450 15669 98732 77618 01747  
25712 97596 59632 80281 68663 22562 95275 51260 39537 78218  
19590 08317 14424 15858 59613 99105 59579 49926 07519 42344  
53460 44336 71144 97737 22742 29173 62836 33070 03917 78936  
25824 52575 36085 01800 68807 60105 97328 94850 44355 42394  
10180 24271 17097

Tavajjoh Tavajjoh Tavajjoh

11050 90218 57489 04622 69682 92869 87069 94239 97953 98024  
61437 83770 24031 18578 12255 25330 53763 86488 57739 79041  
51849 97311 06099 03939 25891 81132 92110 26080 29769 97962  
21292 67249 94705 47860 71462 56164 94607 67098 71062 05814  
40879 69116 27227 92316 01343 27759 07140 14741 53390 69260  
73275 44363 20272 96858 74571 65094 11903 54231 04553 67079  
72538 18284 92793 69965 74401 59287 61765 12846 60144 87580  
49742 60517 05235 26529 43381 06967 75190 03797 05157 95972  
20013 73962 71886 39860 63699 32560 75121 30900 30370 82962  
06545 21058 23158 37051 26246 37337 80075 67397 83745 21816  
73644 01542 29268 21613 30899 12304 33116 11718 67678 41166  
51824 50330 80295 23763 44164 82388 01327 08705 00462 04419  
42823 86169 43755 26533 61033 71314 29550 37517 92955 85119  
26946 70886 13550 03399 30303 89751 98823 44793 80177 42279  
98579 86792 80513 03474 47465 74389 93610 42392 32477 05496  
77071 49271 08285 07254 51886 89821 14059 13054 29423 97935  
37892 78818 42884 67572 83373 91989 41129 79144 76186 20433  
53585 67852 81051 15490 36537 22459 29472 72063 65609 20629  
18582 08124 67796

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11050 63884 49230 04170 85092 63763 18698 47933 08039 49768  
24345 09415 82288 65038 78109 32963 80970 58535 66389 10504  
34787 08516 29226 96628 67233 85056 00304 36033 93366 76982  
32903 53122 94737 74607 15488 64604 55614 66557 14860 57562  
09537 13572 20903 28809 72594 51974 90781 72256 27448 36615  
16237 90867 91654 54134 89318 06207 55653 05698 33635 92021  
30094 85245 30532 20983 79024 33498 96176 97231 35728 65639  
04826 78431 23235 18149 16510 32681 28257 09551 45453 59841  
87131 39742 19753 16587 79644 65661 70908 71305 67148 77587  
17041 45451 40154 62476 17242 62247 56640 14242 99400 64439  
45375 30908 03427 72190 04962 76719 03173 25569 03840 80115  
66230 27659 60789 96004 49404 50443 18221 71327 99643 37885  
84499 46840 13906 55972 82757 08265 33902 61633 99841 28813  
34075 78864 75634 85964 18588 46392 57348 66073 89529 75347  
58651 27592 70563 29021 48485 94033 09449 05372 54704 32372  
56323 70340 45737 49931 06799 45987 98956 69683 92493 60479  
26483 91600 33227 96642 01200 50063 38969 50383 30060 43500

69017 54177 35373 05985 10360 79772 75233 63626 38936 09513  
89230 34007 31011

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11050 32315 95780 03698 85741 81332 53430 73625 00399 76474  
31135 92570 73893 46640 63148 64076 40877 84974 17373 03679  
98094 43505 60332 31513 91745 94143 85260 03890 85077 29651  
81440 08330 03384 19308 69917 08025 96489 52145 53929 51376  
65238 58384 80764 65976 15709 31502 65378 84761 04954 78596  
31391 47813 68012 41131 31991 61601 83046 41549 58599 89071  
07877 23848 14708 75254 63700 85348 20408 79660 24343 04172  
70180 51845 97868 38992 02461 51420 41319 93579 80911 87627  
78713 54700 79052 56166 75160 93998 38905 32072 09884 42998  
93705 98445 68908 78821 74996 19926 50411 12646 20272 54199  
71178 22918 94525 98467 47608 91867 03801 95877 39958 46492  
99431 30588 05527 78646 34881 59225 18238 78145 62504 50838  
10248 71128 76391 00813 28520 89557 12322 64578 13400 25417  
97616 30390 44998 41767 14433 48196 91763 97855 30828 03397  
90946 76638 11928 30065 95357 80497 20257 80987 50355 99606  
71443 90394 45214 22628 86882 27925 81008 52515 53163 96490  
95393 43729 58942 79172 13484 14660 48151 60480 86432 69354  
96317 93953 99554 73656 57530 62369 05805 20246 90599 21984  
59831 62493 79775

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56173 29771 15005 98510 91184 53961 01141 25182 03941 53132  
28991 27581 91424 06464 45820 47692 35158 96184 52991 56379  
69303 96489 36784 60669 88762 63910 13102 12287 32068 15611  
37027 74726 10118 31302 08395 60172 46970 24341 01683 90515  
74032 15628 81620 36984 13366 13131 43127 63358 11346 47758  
35579 97818 21009 97202 04308 05023 42836 80433 79389 35360  
70737 29075 64351 35647 71867 28099 03973 83191 66786 97931  
92581 06116 80988 96504 18118 24677 62601 09618 32763 26585  
01053 13540 03167 75305 74337 48033 67763 36525 72591 19881  
68664 85276 83954 97492 45257 60325 59600 81356 38482 21388  
98697 72940 93726 67855 33635 26103 45141 97804 38799 73807  
87093 94778 95858 03932 97744 24405 08877 33941 48349 80350  
10725 28637 10330 70862 52916 15252 48604 66229 77094 05068  
38435 48195 80098 27479 10416 82042 97866 78860 37578 97508  
81870 33110 46770 30139 26574 23350 56153 26388 78326 79241  
42209 19353 75233 44504 46328 96972 55196 97647 70503 54503  
22723 97891 49120 72408 17478 51586 93407 85447 87873 73364  
57919 18523 12100 91082 62045 71604 69060 37488 90348 89795  
00778 86951 80527

## 20 March:

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64096 22521 18031 47802 09606 82183 52602 30163 02864 35390  
45872 15196 97560 92089 25479 93964 72159 02316 21237 61737  
89654 52476 16851 83805 04247 73421 51923 79134 50273 11261  
71093 26821 70958 95298 26874 28573 13675 23905 91863 58095  
18976 37220 64862 65876 37230 68967 20141 24234 72704 59174  
63724 43828 95859 25865 82467 09863 74932 36217 59523 64085  
13761 72308 49291 31238 97140 73676 32435 22167 41025 72564  
86047 71691 86283 32636 15340 13956 75175 84318 43590 17541  
43686 30929 52754 27195 67370 70369 70607 09767 16943 46904  
62943 62736 45706 29782 46106 32649 64042 81848 76401 21649  
75368 24826 07417 27875 69140 37504 13714 75659 75830 74295  
35703 52470 74127 54269 61517 33952 13724 07535 95081 73713  
46955 32646 79823 59152 87376 23965 20964 16832 18074 53734  
08262 65975 09372 90419 42926 73582 48155 93657 41246 87132  
57905 16095 91028 09213 16718 80461 63428 80489 42697 98742  
04087 03868 27659 73478 45842 63546 27136 43670 62543 49704

98798 28373 41326 86374 30735 98092 95859 30591 90793 10473  
75386 89098 28382 23074 02815 45301 97213 81264 97812 14653  
94967 16582 83261

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64096 46553 99883 54907 04694 49490 39287 24821 03497 53082  
61394 76263 82544 79515 70845 48753 54087 90502 72937 42596  
43978 78647 13568 23608 27644 87020 51569 65279 82608 70728  
64068 17384 62345 68762 81956 97233 13465 61792 83402 43172  
03768 46919 56395 17280 92567 59397 15372 05849 52107 03783  
12619 20838 91979 52972 30285 04216 93524 35637 07852 60804  
59437 05964 87030 49021 44381 04671 92537 29154 85398 06108  
41465 09679 02074 59560 37176 42912 65717 95126 91480 87595  
83302 27609 01797 62867 50359 35473 29801 54392 82941 40468  
43274 52985 38980 72843 59204 81842 38208 48287 38059 14907  
89042 63628 67375 89364 24835 92394 26239 82785 62872 84836  
06329 84799 37346 06702 78563 90290 48395 58789 12523 93801  
83695 98929 79793 24373 75263 92917 65289 39073 58164 45960  
95405 03130 72492 68174 23163 34951 30428 18674 98539 13574  
32560 06312 54531 17408 74986 90943 43194 75867 69086 90830  
83852 82438 73871 20265 96265 53139 80607 51785 46073 15954  
90609 76528 24094 65226 25892 80826 84786 34257 43289 86892  
19056 85164 94952 20431 97893 06104 51861 53678 34047 16494  
75367 18020 97537

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11050 90218 95100 61290 60405 16024 24035 24069 71285 46782  
70607 70726 20149 51040 86414 51241 42465 05169 64245 95686  
26592 94587 90716 38378 01356 45843 45676 95318 05623 61734  
98356 39190 47217 63836 23738 25873 60327 45789 08798 28218  
52943 52302 85349 68459 34920 30053 72787 34247 30873 87397  
50726 97530 85385 13589 07804 81093 54539 01596 57055 41793  
70256 09509 16034 13802 67980 96360 93826 07401 43616 81489  
26876 87947 89618 74536 36345 49829 34586 40872 56429 08645  
04062 74936 86715 25097 89592 60426 49543 52783 76397 35149  
03264 03168 73584 97527 13873 78653 79568 75121 95748 62981  
71823 62763 16089 96162 74052 39071 50761 40538 39748 02876  
75029 28726 36183 01601 62486 89493 86234 68943 92682 52425  
30743 13987 36157 93563 01659 15014 64294 32623 79540 31464  
28043 34149 08535 40176 73051 86580 19519 63263 29856 34612  
56593 63674 96072 30918 39720 35092 35329 10713 56418 06317  
16085 45057 30147 40340 60747 02868 13575 59457 09502 24360  
20380 18712 64250 27172 87161 23781 01683 08372 21724 05610  
78087 81410 31270 21517 53632 93656 01943 53046 08040 42674  
91081 80430 40735

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11050 63884 20548 47505 43470 09426 71044 15037 30874 65818  
47050 52392 04609 67689 78358 46569 31073 70956 03474 60649  
45302 27142 08189 04608 72636 28461 78416 42765 17464 28421  
50474 38268 49843 79467 30464 42675 87051 38716 20333 36456  
49865 74067 19549 05071 75907 98714 18140 72640 98156 78197  
03935 17640 59625 35204 85108 25450 70178 83760 90635 08504  
91741 98482 40686 08527 13958 64961 98239 72968 37094 54741  
52798 71642 32936 49704 67182 60239 63846 49297 60279 75024  
36081 49035 62371 47640 98523 04870 93540 32486 70172 94573  
12039 43922 31597 51679 38340 34847 14689 39750 51951 56543  
07431 80626 47173 82902 73896 04268 02941 21567 30840 46075  
32789 70253 85268 70836 71492 79063 42890 60167 43086 52712  
46746 27289 85423 26179 36786 40735 75857 89591 70584 37258  
74531 09314 08274 17275 28649 56279 70395 09236 73560 09125  
83628 19234 07640 80191 64238 24656 98024 38280 84569 23925  
03728 13407 62486 81524 67871 10435 38518 59170 61435 43060

38418 56304 57618 29470 59341 90460 76093 51790 94601 75398  
51337 07179 07236 74808 41849 07084 79503 50154 92876 62338  
93410 41919 53262

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11050 32315 31991 81091 63950 32906 37392 78530 78219 60658  
40548 65417 95643 12537 49437 52742 18673 82639 69275 38137  
98419 27967 17983 22327 80935 28965 98471 71341 45919 68931  
60463 15718 03023 45741 36907 58968 62735 75660 17935 32973  
90960 59398 79292 58956 87130 39535 68089 65224 49209 68732  
49862 64945 02938 70912 63692 38379 34606 06468 42616 47432  
04690 84168 04068 17462 70604 60873 26020 64841 89260 86906  
47425 02173 16094 65924 63812 41324 12034 62817 31698 51393  
16249 24597 51658 16373 27560 78254 06935 30680 75696 41745  
77856 63656 28014 95721 85836 01865 65389 18289 29808 72383  
42160 48789 81349 86531 29857 57584 15741 69125 23791 24926  
82071 08570 59854 14591 01760 78681 37340 12873 67025 05805  
73453 64372 84853 68909 33952 70846 01094 58609 65827 48306  
45862 80868 73050 31787 43807 04386 89714 78634 05486 71256  
40394 10430 86048 24204 26346 26207 62026 80476 24628 08037  
53162 70463 23080 70437 17629 03786 05972 56026 91223 27504  
98038 57945 29740 24598 54375 43229 86754 53764 67152 61682  
86372 41004 89538 59074 01984 42762 70356 78323 17653 75151  
57890 19819 48211

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56173 29771 71206 21607 63526 01031 76958 85920 67304 23756  
73808 90965 04348 10075 31573 10270 92806 54050 53561 97034  
25092 96506 36047 44613 26286 74364 50170 56729 49564 62026  
15306 89824 80728 29298 21807 68593 83821 08760 58529 47870  
65964 27069 41706 02671 27351 72763 53096 96219 18069 38432  
07162 87473 81712 64803 05712 69483 29191 58629 17164 54209  
35373 60534 39351 37064 31546 19716 24305 98975 82635 91536  
80835 85208 64080 95935 20980 18652 80396 29846 29206 25391  
40658 28618 11534 80185 46792 60183 26757 44283 71473 78504  
30391 30760 66423 58756 70443 76962 95041 28965 14291 59082  
96755 27004 42990 57675 21284 48703 06260 84782 05838 25957  
43632 34949 15137 80652 54637 25040 80731 75962 47057 53362  
25570 44228 42980 31742 30524 50996 60184 78293 06246 15981  
86524 13080 97304 06367 94031 97590 75237 10679 59771 41741  
71703 96221 45577 39649 21253 91257 38248 32756 72818 65188  
42127 56187 98935 09013 63218 25230 14325 28267 82839 43735  
43228 03466 74139 35889 59795 28473 53803 65605 96723 63988  
65070 89068 36209 61748 68904 73818 06314 30715 82045 30850  
22314 94561 61864

## 21 March:

- Stray "680" group gets sent before the first message starts.
- 2nd message appears to end abruptly mid-group.
- Bubble jammer and 1khz tone jammer present throughout most of both broadcasts.

680

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64096 22521 72052 85414 10668 56164 81825 94774 06849 70477

...

Tavajjoh Tavajjoh Tavajjoh

64096 46553 61541 27162 42573 22766 88904 12896 06459 73608

...

Tavajjoh Tavajjoh Tavajjoh

11050 90218 89542 37981 91980 98843 24427 85357 64240 12125



...

Tavajjoh Tavajjoh Tavajjoh  
11050 63884 05311 75178 59637 16574 53613 20458 39175 42704

...

Tavajjoh Tavajjoh Tavajjoh  
11050 32315 11933 27633 25737 91713 71914 40337 13080 82635

...

Tavajjoh Tavajjoh Tavajjoh  
56173 29771 30555 53976 32947 61804 39538 76167 21458 63278

...

## 22 March:

Tavajjoh Tavajjoh Tavajjoh  
64096 22521 18642 36580 31686 07078 96087 52923 04880 76560

...

Tavajjoh Tavajjoh Tavajjoh  
64096 46553 26435 31692 33684 19703 70352 57311 42813 35997

...

Tavajjoh Tavajjoh Tavajjoh  
11050 90218 46891 07378 58314 49870 72714 87325 01737 83573

...

Tavajjoh Tavajjoh Tavajjoh  
11050 63884 68215 58388 94262 50620 49475 50436 23219 34522

...

Tavajjoh Tavajjoh Tavajjoh  
11050 32315 36204 65531 72307 12737 16368 76904 42330 28464

...

Tavajjoh Tavajjoh Tavajjoh  
56173 29771 86247 57692 87197 31449 77193 93960 58633 48267

...

## RUSSIAN OPERATOR 6 TESTS

Russian operator 6 tested on 1, 2, 3 and 7 March for hours in a row. S06, E06, G06, V06 and V23 were on the air. Also many Windows XP and Windows 7 sounds, test tones, transmitter noises, music fragments, operator chats and telephone calls were heard. Similar activity was also logged on 23-03, around 1220z on 6977 kHz.

Thanks to Lac and PY for the many hours of recordings. Transcripts by AB.  
The signals were poor at times and I probably missed a few things. It was a lot of fun, as always with these tests.

### 10755 kHz, 01-03

|                      |                                                                                          |
|----------------------|------------------------------------------------------------------------------------------|
| 01-03, 0811 UTC, S06 | 480 (R)                                                                                  |
| 01-03, 0819 UTC, G06 | 271 (R) 958 958 237 noises 27 27 noise 271 (R) very noisy                                |
| 01-03, 0831 UTC, S06 | 111 rest unreadable                                                                      |
| 01-03, 0832 UTC, G06 | 579 (R) rest unreadable                                                                  |
| 01-03, 0835 UTC, S06 | unreadable 0 480 (R)                                                                     |
| 01-03, 0836 UTC, S06 | 480 (R)                                                                                  |
| 01-03, 0839 UTC, S06 | 480 (R) 139 4 unreadable 480 (R). V06 also briefly audible                               |
| 01-03, 0842 UTC, G06 | Unreadable                                                                               |
| 01-03, 0851 UTC, S06 | 480 (R)                                                                                  |
| 01-03, 0907 UTC, S06 | Noisy transmitter, Windows sound, 0, silence,<br>480 (R) 00000 572 572 572 572 572 11 11 |

[illegible]

01-03, 0925 UTC, G06 1 480 (R) 00000, silence,

01-03, 0929 UTC, E06 480 (R) 00000

|                      |                                                                                                                                                                                              |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 01-03, 0943 UTC, E06 | Transmitter noise, Windows sound, distorted/stuttering sound, 480 (R) 000 0, 111 (R), transmitter noise, 11 1, transmitter noise, 111 00000, test tones, 00000, tones, unreadable (off freq) |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

01-03, 0954 UTC, G06 111 (R) on 10757 kHz

01-03, 0955 UTC, G06 111 111 111, tones, Windows sound

|                      |                                                                                                                                                                                                                                                                                                              |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 01-03, 1000 UTC, G06 | Transmitter noise, tones, 2 111 111 111 111 00000, faint voices, 00000 000 111 111 111 32 329 (R) 5 several distorted figures 9 329 329 3 329 329 533 329 (R) distorted figures 329 329, music fragment, Windows sounds, test tones, feedback sounds, Windows sounds, tones, feedback sounds, Windows sounds |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

01-03, 1016 UTC, E06      Lots of Windows sounds, 000 480 (R) 00000

|                      |                                                                                                                     |
|----------------------|---------------------------------------------------------------------------------------------------------------------|
| 01-03, 1100 UTC, G06 | Transmitter noise, tones and clicks, 111, 329 (R) 00000 00000, Windows sounds, 329 (R), faint voices, 480 (R) 00000 |
|----------------------|---------------------------------------------------------------------------------------------------------------------|

```
01-03, 1127 UTC, S06      123 45 480 (R) 00000
                             26410 98528 63025 31764 11647 88453 29401 85726 76213 97254
                             89721 04760 25978 45087 57931 26394 18634 18964 07654 29461
                             00000
                             Test tones 00000
```

```
01-03, 1130 UTC G06      123456789 1m silence 4 439 (R) 00000
                           58302 96143 56322 94256 35743 91463 16853 86245 12576 71845
                           25842 617942 68361 2570 9 42 781 34516 07391 56267 18 274 385 4
                           00000
```

01-03, 1137 UTC, E06 947 (R) 00000, Windows sound

|                      |                                                                                                                          |
|----------------------|--------------------------------------------------------------------------------------------------------------------------|
| 01-03, 1141 UTC, G06 | Windows sounds, transmitter sounds, distorted audio, Windows sound, 334824824448482481 (very fast), windows sound, 00482 |
|----------------------|--------------------------------------------------------------------------------------------------------------------------|

01-03, 1145 UTC, S06 480

[illegible]

|                      |                                                                          |
|----------------------|--------------------------------------------------------------------------|
| 01-03, 1147 UTC, G06 | Unreadable operator voice also at 1149z, followed by microphone feedback |
|----------------------|--------------------------------------------------------------------------|

01-03, 1149 UTC, G06 Windows sounds, 4383480448 (fast) transmitter noises, 480 (R) 00000 480 (R) 00000

|                      |                                                                                                        |
|----------------------|--------------------------------------------------------------------------------------------------------|
| 01-03, 1154 UTC, G06 | Series of beeps and tones, transmitter noise, electronic music, noises, computer sounds, Windows sound |
|----------------------|--------------------------------------------------------------------------------------------------------|

01-03, 1203 UTC, S06 Distorted voice, Windows sounds, feedback sounds, 4 48, 480 (R)

01-03, 1217 UTC, G06      480 (R) 00000, Windows sounds, 111 (R) 00000 111 111 1, Windows sounds

|                       |                                                                                                                                                                                                                                                                                                  |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 01-03, 1223 UTC, RUS6 | Transmitter noise, tones,<br>S06: 111, G06: 111,<br>E06: 111, operator chat, tones,<br>E06: 1, S06: 111, 1234 1234, 1234, 123 480 (R) 000 00000,<br>electronic music fragment, many Windows sounds, music fragment, Windows sound,<br>E06: 49 80, 480 380, 480 (R),<br>G06: 482 482 482 00 00000 |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

01-03, 1247 UTC, RUS6  
G06: 480 (R) 47 00000  
72796 39634 95732 58144 06734 26963 01448 59973 70893 22221  
82945 27319 18426 14483 51846 16300 19652 59922 46743 86324  
85975 25742 59746 75398 27500 00809 25991 00000,  
transmitter noises,  
G06: 123,  
E06: 123, UTC, S06: 123

01-03. 1305 UTC. S06 480 (R) 00000

01-03, 1311 UTC, S06 111 111 00000 00000

01-03, 1312 UTC, G06 00000 111 111 00000 111 111 00000

01-03, 1315 UTC, G06 0 329 (R) (distorted audio), Windows sound

01-03, 1400 UTC, G06      00000 12345 12345 12345, transmitter noises and tones, Windows sound

01-03, 1405 UTC, S06      1 4 480 48 480 (R) 17s silence 480 (R) 00000, many Windows sounds

|                             |                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 01-03, 1413 UTC, S06        | 111 111 111 00000 1 1 5 2 1 11 Windows sounds 111 1 00000 Windows sound                                                                                                                                                                                                                                                                                                                           |
| 01-03, 1415 UTC, G06        | 111 111 22222 111 111 22222                                                                                                                                                                                                                                                                                                                                                                       |
| 01-03, 1416 UTC, E06        | 111 1 000                                                                                                                                                                                                                                                                                                                                                                                         |
| 01-03, 1421 UTC, G06        | 329 329 3 00000, test tones, voice                                                                                                                                                                                                                                                                                                                                                                |
| 01-03, 1422 UTC, V06        | 9 ??? 6?5, voice, 9, voice                                                                                                                                                                                                                                                                                                                                                                        |
| 01-03, 1423 UTC, V23        | 5, electronic music fragment, Windows sound, game sounds                                                                                                                                                                                                                                                                                                                                          |
| 01-03, 1428 UTC, S06        | 480 (R) 00000, game sounds,                                                                                                                                                                                                                                                                                                                                                                       |
| 01-03, 1431 UTC, G06        | 111 111 111 480 (R) 532 6289426528928634 00000, game sounds, several music fragments                                                                                                                                                                                                                                                                                                              |
| 01-03, 1452 UTC, S06        | test tones, Windows sound, 329 (R) 9999, 329 9 (R) 00000                                                                                                                                                                                                                                                                                                                                          |
| 01-03, 1456 UTC, G06        | 329 (R) 00000                                                                                                                                                                                                                                                                                                                                                                                     |
| 01-03, 1457 UTC, E06        | 329 (R) 00000, music fragment, 111                                                                                                                                                                                                                                                                                                                                                                |
| 01-03, 1458 UTC, S06        | 2 9 480 (R) 0000                                                                                                                                                                                                                                                                                                                                                                                  |
| 01-03, 1501 UTC, RUS6       | G06: 436 (R) 2 149 149 5252 00000, Windows sound, faint voices, Windows sound, 111 11,<br>E06: 111,<br>V06: 1,<br>G06: 111 111 574 574 574 000000                                                                                                                                                                                                                                                 |
| 01-03, 1506 UTC, G06        | Distorted numbers, UTC, G06: 3, many Windows sounds, 111 111 111 11 00000 000 111 111 long<br>silence 111 111 111 111, Windows sound                                                                                                                                                                                                                                                              |
| 01-03, 1533 UTC, G06        | 111 111 111 00000, whistling, open microphone feedback                                                                                                                                                                                                                                                                                                                                            |
| 01-03, 1536 UTC, E06        | 480 (R) 99118 86701 8 701 937 937 45 45 00000                                                                                                                                                                                                                                                                                                                                                     |
| 01-03, 1539 UTC, G06        | 480 00000, transmitter noise, 999 90, 480 (R) 00000, 480 (R) 00000, 11111 00000                                                                                                                                                                                                                                                                                                                   |
| 01-03, 1555 UTC, G06        | 00000 00000, 111 (R) 00000, 480 (R) 00000                                                                                                                                                                                                                                                                                                                                                         |
| 01-03, 1557 UTC, S06        | 480 00000                                                                                                                                                                                                                                                                                                                                                                                         |
| 01-03, 1604 UTC, G06        | 111 (R) 00000                                                                                                                                                                                                                                                                                                                                                                                     |
| 01-03, 1614 UTC, G06        | 329 (R) 533 20 20 3 79 379 36 4 379 379 79 4 379 4 4 379 379 369 4 36 379 000 000 00                                                                                                                                                                                                                                                                                                              |
| 01-03, 1618 UTC, G06        | 123456789 379 379 379 000 379 379 379 00000, Windows sound                                                                                                                                                                                                                                                                                                                                        |
| 01-03, 1621 UTC, G06        | Windows sound, 329 329 329 329 329 (2m silence) 329 (R) 533 20 20 00 00 74 74 00 00 1 00 00000                                                                                                                                                                                                                                                                                                    |
| 01-03, 1625 UTC, G06        | 379 (R) 00000 00 00 00000                                                                                                                                                                                                                                                                                                                                                                         |
| <br><b>10755 kHz, 02-03</b> |                                                                                                                                                                                                                                                                                                                                                                                                   |
| 02-03, 0920 UTC, S06        | Windows XP start up sound, pause, 0, pause, 1ne<br>480 572 11 00000<br>572 572 572 572 572 11<br>84965 16954 82900 27443 85901 14721 05887 49288 41698 17943<br>17955 00574 73299 72306 93811<br>00000                                                                                                                                                                                            |
| 02-03, 0925 UTC, G06        | 1 480 00000                                                                                                                                                                                                                                                                                                                                                                                       |
| 02-03, 0928 UTC, E06        | 480 1 480 00000                                                                                                                                                                                                                                                                                                                                                                                   |
| 02-03, 1133 UTC, RUS6       | Carrier on/off, open mic sounds, Windows sounds,<br>E06: 111 111 111 00000 (R),<br>G06: 3, lots of Windows sounds,<br>E06: 111 221 123456789 9876543210,<br>G06: 123456789 9876543212,<br>S06: 123456789 987654321, Windows sounds, tones,<br>G06: 111 111 00000 21 111 2 4 4 480 4 1, 480 480 480 480 4, Windows sounds, 480 (R) 00000                                                           |
| 02-03, 1212 UTC, G06        | 00000, Telephone call, 482 (R) 00000                                                                                                                                                                                                                                                                                                                                                              |
| 02-03, 1359 UTC, RUS6       | Open mic sounds, telephone calling sound, G06: 111 111 111 111 00000                                                                                                                                                                                                                                                                                                                              |
| 02-03, 1401 UTC, G06        | 329 (R), 48 sec silence, 11 111 111 22222 333 44 5 6789, Windows sound                                                                                                                                                                                                                                                                                                                            |
| 02-03, 1409 UTC, RUS6       | Windows sounds,<br>G06: 1 1,<br>S06: 1, Windows sounds,<br>S06: 111 111 111 111 (silence) 00 0 12 123 45 111 111 00 0 (1m5s silence) 67 1 67 1 0 111 111 000 0,<br>480 (R) 000 0 000 0 0, 278 (R) 00 00 0 0 0000 0 (long silence)<br>Windows sounds, music fragment, silence, music fragment,<br>S06: 329 (R) 000 00 111 111 222 222 333 333 444 444 555 555 666 66 777 777 888 888 8 999 999 000 |

|                       |                                                                                                                                                    |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
|                       | 00 (2m30s silence), 1,<br>music fragment,<br>S)6: 11 1 111 5 56 111,<br>music fragment,<br>S06: 1 11,<br>music fragment,<br>S06: 00000 111 111 000 |
| 02-03, 1430 UTC, G06  | 111 1 329 (R) music fragment on top of UTC, G06                                                                                                    |
| 02-03, 1504 UTC, G06  | 00000                                                                                                                                              |
| 02-03, 1533 UTC, RUS6 | G06: 111 111 111 00000, whistling, tones,<br>E06: 480 (R) 86701 8 701 937 937 45 45 00000                                                          |
| 02-03, 1539 UTC, G06  | 5 480 00000, voices, UTC, G06: 999 silence 90 silence 480 (R) 00000 silence 480 (R) 00000 silence<br>11111 00000 silence 0, Windows sound          |
| 02-03, 1553 UTC, G06  | 00000 00000 111 111 111 111 111 111 111 111 silence 111 00000                                                                                      |
| 02-03, 1557 UTC, RUS6 | 480 480 480 480 480 00000, UTC, S06: 480 00000                                                                                                     |

#### 10755 kHz, 03-03

|                       |                                                                                                                 |
|-----------------------|-----------------------------------------------------------------------------------------------------------------|
| 03-03, 0404 UTC, G06  | 480 (R) 000 0 0000                                                                                              |
| 03-03, 0408 UTC, S06  | 480 (R) 00000                                                                                                   |
| 03-03, 0727 UTC, S06  | 111, 480 (R) 84 00000, 480 (R) 548 548 5 584 (R) 22 22 52899 51 234 7 01386 932600 9869326 72297<br>00000 00000 |
| 03-03, 0733 UTC, G06  | 480 480 480 00000, 480 (R) 00000, Windows sound                                                                 |
| 03-03, 0830 UTC, G06  | 480 (R) 1 00000, Windows sound                                                                                  |
| 03-03, 0912 UTC, RUS6 | G06 111 111 111 00000 (R), Windows sounds,<br>E06: 111,<br>G06: 111 111 111 00000, 480 (R) 00000                |
| 03-03, 0919 UTC, G06  | 480 (R) 00000, windows sound, open mic sounds                                                                   |
| 03-03, 1042 UTC, E06  | Tones, fragment of music 00000 00000 00000 00000 00000, windows sound                                           |

#### 10755 kHz, 07-03

|                      |                                      |
|----------------------|--------------------------------------|
| 07-03, 1108 UTC, G06 | 482 (R) 00000, tones, Windows sounds |
|----------------------|--------------------------------------|

#### 6905 kHz, 07-03

|                       |                                                                              |
|-----------------------|------------------------------------------------------------------------------|
| 07-03, 1746 UTC, RUS6 | G06: 111 (R),<br>E06: 111 (R),<br>G06: 111 (R), Windows sound, operator chat |
|-----------------------|------------------------------------------------------------------------------|

#### S06: 10755 kHz, 16-03, 1145 UTC

975 328 60  
31076 15179 60424 66467 01635 56674 24977 42481 87319 09954  
99528 75430 50199 00858 65790 11446 83795 86335 30164 65815  
55929 37398 82258 34306 59079 59672 41388 44424 60447 12483  
95753 70061 68920 12412 63984 57954 61115 32268 33730 39391  
33694 31401 56992 25622 74127 78304 06879 10390 67118 51440  
25476 28026 78842 29221 17519 40562 86215 05093 69550 52264  
328 60 00000

#### S06: 11073 kHz, 16-03, 1245 UTC

352 671 48  
40473 59628 75592 85003 48191 10729 11116 50124 48321 69056  
16455 71789 63814 43985 86501 39570 93086 55389 34670 65728  
98406 94382 90328 41123 29163 58368 67811 49023 34673 33845  
74199 72760 46230 25407 48062 58183 33082 54369 46339 16818  
62021 75458 21555 80698 15269 85015 56555 44796  
671 48 00000

**10755 kHz, 17-03, 1238 UTC. Two series of fast beeps****10755 kHz, 17-03, 1250 UTC**

975 (R3m40s) 9 [20s silence] 975 (R1m) 843 843 60 60 = =  
48204 24483 27169 85973 26306 81808 64971 16299 11746 14313  
35182 11549 37787 37512 36348 44317 41683 84130 39399 80745  
866 [46s silence]  
975 (R35s)  
84130 39399 80745 86643 07688 74307 57597 65927 96724 69982  
25435 37508 41861 58308 12610 62735 22876 78293 89726 47448  
07994 41251 39296 08955 82564 42946 60240 17339 49325 33662  
61961 84514 67432 82108 27632 99475 22453 94118 51427 [42s silence]  
975 (R1m10s)  
82108 27632 99475 22453 94118 51427 33171 44494 72064 79361  
= = 843 843 60 60 00000

**Recomposed message:**

975 843 843 60 60 = =  
48204 24483 27169 85973 26306 81808 64971 16299 11746 14313  
35182 11549 37787 37512 36348 44317 41683 84130 39399 80745  
86643 07688 74307 57597 65927 96724 69982 25435 37508 41861  
58308 12610 62735 22876 78293 89726 47448 07994 41251 39296  
08955 82564 42946 60240 17339 49325 33662 61961 84514 67432  
82108 27632 99475 22453 94118 51427 33171 44494 72064 79361  
= = 843 843 60 60 00000

**11073 kHz, 19-03, 1424 UTC. Slow beeps****11073 kHz, 19-03, 1438 UTC. Two series of fast beeps****11073 kHz, 19-03, 1500 UTC**

352 (R4m, TX issues in first 3m) 184 184 60 60 = =  
51725 70834 87357 77514 04329 35052 79591 20103 52760 96768  
96405 97583 68445 22749 94844 86269 63389 00242 22262 53474  
01866 64173 96026 74790 80566 66616 94655 08498 94383 74497  
90058 75540 30037 06453 75579 18500 54716 44782 69535 38020  
91923 83444 98925 30102 01723 98022 93002 72722 07559 48595  
41395 35198 36858 [25s silence]  
352 (R2m30s) [34s silence]  
352 (R1m20s)  
72722 07559 48595 41395 35198 36858 51462 96474 08751 67574  
80649 24638 81693  
= = 184 184 60 60 00000

**Recomposed message:**

352 184 184 60 60 = =  
51725 70834 87357 77514 04329 35052 79591 20103 52760 96768  
96405 97583 68445 22749 94844 86269 63389 00242 22262 53474  
01866 64173 96026 74790 80566 66616 94655 08498 94383 74497  
90058 75540 30037 06453 75579 18500 54716 44782 69535 38020  
91923 83444 98925 30102 01723 98022 93002 72722 07559 48595  
41395 35198 36858 51462 96474 08751 67574 80649 24638 81693  
= = 184 184 60 60 00000

**9463 kHz, 19-03, 1704 UTC. Fast beeps****9463 kHz, 19-03, 1706 UTC. Fast beeps****9463 kHz, 19-03, 1730 UTC**

801 (R4m) 294 294 56 56 = =  
35964 39951 82689 28578 34938 56753 56757 [15s silence]  
801 (R2m) 8 801 (R1m55s) [4s silence]  
801 (R1m50s) 294 294 56 56 = =  
35964 39951 82689 28578 34938 56753 56757 03715 19670 50250  
06892 82451 15306 46292 16950 84636 98896 [22s silence]  
801 (R2m40s)

15306 46292 16950 84636 98896 93480 28639 69759 97641 51604  
34917 47703 61432 47449 31307 79065 83165 70078 61056 44701  
65237 97075 15078 89199 55670 68923 72625 67975 02310 53725  
93612 52654 98516 69432 98548 74452 [48s silence]  
801 (R1m45s)  
93612 52654 98516 69432 98548 74452 [TX issues] 808 55795 [4s silence]  
801 (R1m)  
98516 69432 98548 74452 18808 55795 96987 10232 67873 13192  
50471 40914  
= = 294 294 56 56 00000

#### Recomposed message:

801 294 294 56 56 = =  
35964 39951 82689 28578 34938 56753 56757 03715 19670 50250  
06892 82451 15306 46292 16950 84636 98896 93480 28639 69759  
97641 51604 34917 47703 61432 47449 31307 79065 83165 70078  
61056 44701 65237 97075 15078 89199 55670 68923 72625 67975  
02310 53725 93612 52654 98516 69432 98548 74452 18808 55795  
96987 10232 67873 13192 50471 40914  
= = 294 294 56 56 00000

## RUSSIAN OPERATOR 6 SPORADIC EVENT

The sporadic event of this year was on 24 and 25 March this year.  
Logged by the Priyom Team, some by AB. Research and report by PY.

#### S06c: 11039: Russian embassy in Rabat

11168 kHz, 24-03, 1100 UTC      11039 (R4m)

#### S06c: 11042: Russian embassy in Addis Ababa

15892 kHz, 24-03, 1435 UTC      11042 (R4m)  
12184 kHz, 24-03, 1445 UTC      11042 (R4m)

#### S06c: 11002: Russian embassy in Dar es Salaam

19389 kHz, 25-03, 1435 UTC      11002 (R4m)  
17456 kHz, 25-03, 1445 UTC      11002 (R4m)

*There were F06a with 5FG text files. This first one - ID 80094 (Russian embassy in Abuja) - had already transmitted during last year's sporadic event, so it is probably related to it:*

#### F06a: 20237/17463/13826 kHz, 25-03, 1245/1255/1305 kHz. File named \_KI80094.001 (1260 bytes)

11100 80094 94235 25001 02019  
24572 25555 35336 74028 68697 34425 81758 20688 95739 43347  
19814 02713 87167 19793 62525 38514 76510 13802 47079 23962  
67807 43987 33602 70006 42439 25431 13399 87652 02774 81667  
37619 74993 26067 07937 02250 85976 27054 77885 50414 85599  
52667 10926 77877 21217 57329 42418 52717 64645 32236 63871  
85098 04767 87095 25358 08074 95292 07735 17319 55359 87406  
38028 73947 47028 01946 59580 65351 19037 20827 67597 70662  
57553 02398 66391 49299 23995 50400 32942 52554 81730 91231  
21976 42703 60387 39204 10978 11827 18678 54466 08579 17519  
91715 23299 74772 77681 33729 15456 26369 91585 92130 98244  
26157 79396 73866 12037 79182 57332 89989 36882 84598 90666  
89397 04931 16519 91739 17660 38347 32312 55187 61887 17388  
31777 47553 67571 08354 15631 93491 38335 06087 16753 25739  
54526 70709 02623 91035 71606 63284 72378 29201 84249 10094  
96956 67534 67111 50213 75715 97737 28193 46080 08021 27547  
35736 61731 03196 24254 04596 38408 77291 92314 53021 22216  
10116 52223 65782 23510 60945 12846 24589 12720 66376 54396  
91720 82279 68732 64249 57829 29362 48479 92764 89826 39099  
59087 21325 39822 72981 87763 59768 01019 92113 90502 15398  
21525 70032 74900 00762 12020 74750 29142 72400 08194 24735

Note: no serial-GC postamble.

*These IDs used to be part of that F06a network from Chita that transmitted 5LG text files once a month, and went inactive when the Chita hub ceased its regular operations in 2024. The signal was really weak compared to other concurrent sporadic transmissions: was it still transmitted from Chita? The filename format and file contents seem to have changed, from 5LG to 5FG, but filenames still use the characteristic .TXT extension.*

**F06a: 80159** - these are literally its same regularly scheduled time and frequency slots from before 2024:

**11128 kHz, 25-03, 1520 UTC** Too weak to decode  
**9467 kHz, 25-03, 1530 UTC** File named \_KI801~1.TXT (1253 bytes)  
**7464 kHz, 25-03, 1540 UTC** Too weak to decode

11100 80159 54379 25149 02019  
21134 74235 79737 09180 00954 82060 20995 \_\_\_\_\_25  
37511 64964 78315 80399 6699\_ \_\_\_\_\_776 15973 99824  
\_\_\_\_\_5371 84304 48549 40814 98187  
94536 94799 69306 35739 02178 54603 87142 73213 02000 70929  
29747 \_\_\_\_\_59 38693 11657 19351 91765 46322 20436  
17100 53\_\_\_\_\_11499 92596 49183 19470 91965 06\_\_\_\_\_  
\_\_\_\_\_90966 03029 213\_\_\_\_\_2755 91368 76519  
\_\_\_\_\_111 47435 29270 \_\_\_\_\_9 70720 96222  
3\_\_\_\_\_56772 56552 97858 37049 24432 84238 51495  
22564 45200 86791 21388 75518 16809 25794 55064 06684 33711  
51509 68869 97848 80213 37306 63797 99762 13944 65732 99633  
21582 06835 02192 07083 10260 35818 17155 42570 43315 40409  
42840 15412 83411 89375 75310 42029 68199 23677 57912 06906  
33842 67859 07005 34969 95676 27094 65903 05086 34435 12053  
97994 59356 61474 58795 54940 87899 61448 35868 80919 93812  
35850 55800 38842 67992 95884 33177 69477 28513 78079 56481  
19421 04232 81102 65899 9\_\_\_\_\_81  
36692 33342 72422 61257 69000 32609 35412 99620 28583 22778  
14630 73009 592\_\_\_\_\_8825 95417 41289 30218 72964  
03291 93383 38628 76084 31169 28847 69637 66296 91\_\_\_\_\_

**F06a: 80072** (Russian embassy in Dhaka) - we only have one earlier mismatching log from 2018.

> 2018-03-14 1230z 11019cf F06a file named 80072~1.TXT (1552 bytes) 11100 80072 35712 14017 02509, 5LG text file

*We have to question whether there actually ever were regularly scheduled transmissions for this ID. Is it possible that it's been actually transmitting during sporadic events for all those years?... Reappearance during this sporadic event, message serial #23:*

**11068 kHz, 24-03, 1525 UTC** File named \_KI800~1.TXT (tentative decode), 11100 80072 91728 24023 02\_\_\_\_\_  
(tentative decode), 5FG text file, too weak to properly decode  
**9363 kHz, 24-03, 1535 UTC** Too weak to decode at all  
**???? kHz, 24-03, 1545 UTC** Not found

*There was one other transmission that really stood out, using ID 00119 - that is one ID known to have been operated from Havana. Again, the signal was really weak compared to other concurrent sporadic transmissions, everywhere I checked in Europe (I didn't know the ID yet). I could not find other transmissions for that cycle.*

**F06: 20741 kHz, 25-03, 1410 UTC**

11100 00119 82645 25002 02349  
86054 65906 64884 29159 38139 22059 63788 46637 49329 96132  
08211 23549 61449 58811 55200 30843 25158 49493 55699 84965  
21361 50356 68193 23262 73042 12718 45192 44480 06846 36174  
44768 97288 23634 80940 14618 44681 04790 89709 83448 94808  
03294 35093 32701 78251 25689 47359 15254 88000 53236 32669  
90458 30887 71227 90711 96611 47413 32588 33832 51393 20523  
81055 11274 71721 57651 82243 78422 73490 13130 60352 60135  
23947 23888 06167 17040 30267 65788 40137 18096 09416 24529  
65104 97985 73708 41872 57211 03556 63384 79387 87258 32939  
40662 98555 33173 76205 28465 21745 88556 76653 18747 01453  
19357 90984 67414 01066 49436 43900 31968 75086 64307 72898

45018 67257 40067 03413 07750 42234 19932 81928 66982 69700  
03998 94329 75080 56140 93981 14217 23023 83715 80289 25732  
83771 8081\_775  
88699 52424 39475 35060 91347 29398 09669 74326 77837 36254  
25659 30091 99156 25057 84667 30575 90277 43942 15143 96813  
70736 49818 60880 82379 70684 90291 56322 28321 18227 20179  
24014 60492 84019 25978 11653 59596 63264 65734 91094 94013  
02489 74845 41869 54427 01012 52873 29567 46342 88396 54316  
02935 10727 14880 55899 19068 83415 04917 45737 64143 39820  
95091 08559 27511 27610 37763 21525 51071 48195 23486 52334  
58344 76620 19247 58769 48288 86139 70805 49323 46380 23091  
95113 09114 38430 17052 31889 00409 51462 06339 96939 05922  
15314 41683 83429 00000

Note: still no serial-GC postamble.

*Interestingly enough, those outlying F06 and F06a are the ones that featured 11100 priority and no serial-GC postamble. They're probably still related to the sporadic event activity, but apart from the stuff below which exhibits certain other striking shared characteristics.*

**F06:** 90017 (Russian embassy in Warsaw):

Last year's sporadic event's activity:

> 2025-03-25/26 1520/1530/1540z 15739/13429/11068cf F06 11166 90017 39861 25015 00029 29985 00000

**15739/13429/11068 kHz, 24-03, 1520/1530/1540 UTC**

11100 90017 95317 24054 00029 56687 00000

**15739/13429/11068 kHz, 25-03, 1520/1530/1540 UTC**

11166 90017 95317 24054 00029 56687 00000

*Note the discrepancy in message priorities. Apart from that, with those short messages, the message serial number is probably irrelevant, and the 1-group payload is too short to reveal anomalies. All other sporadic activity below features content reuse and manipulation: reuse of message sent by that ID during previous sporadic events, groups shared with messages to other IDs within this sporadic event, digit replacement across the whole message, substitution patterns...*

**E06 759:**

The only voice activity (apart from S06c) logged in this sporadic event, but well-expected. Last year's sporadic event's message:

> 2025-03-27 0130/0230z 5879/4923kHz E06 759 368 27  
> 23905 12156 47404 41659 85451 54072 74770 86115 78638 01070  
> 33777 35655 76906 79706 97864 43390 06815 63425 93592 56208  
> 68361 05343 20960 00666 61548 52340 53408

**5879/4923 kHz, 26-03, 0130/0230 UTC**

759 843 27  
11205 22156 43304 43439 85451 54072 74770 86115 78638 01053  
53737 35654 76906 79706 97825 43390 06815 63425 93592 56243  
38361 05343 20960 00346 61548 52340 53234  
843 27 00000

*That is an 82% match with the previous year's message, with no discernable pattern in the digit alteration; however out of 24 digits substituted:*

**F01: 24-03/25-03, 1100/1110/1120 UTC**

Known sporadic schedule; the only F01 transmissions logged during this sporadic event. Last year's sporadic event's message, serial #30:

> 04275 24164 64494 90387 65821 39522 91860 34846 32450 86519  
> 00067 84383 57276 65157 14956 65562 87183 75434 10683 04938  
> 48731 90792 38050 22837 15360 37791 70498 98932 40186 16428  
> 34586 80111 70093 26705 30314 92928 31641 42063 57680 37386



> 98269 15619 16688 13483 23096 67698 80774 94660 53003 77974  
> 03870 51935 81179 66889 36318 01475 30056 00000

**10826/13379/16296 kHz, 24-03/25-03, 1100/1110/1120 UTC**

42348 24164 34234 90387 65821 39522 91860 34846 32450 86519  
23494 84383 57276 65157 14956 65562 87183 75434 10683 04938  
56858 90792 38050 22837 15360 37791 70498 98932 40186 16428  
34586 80111 70093 26705 30314 92928 31641 42063 57680 37386  
98269 15619 16688 13483 23096 67698 80774 94660 53003 23423  
03870 51935 81179 66889 36318 23441 32056 00000 +++++ +++++

*The payload is a copy of the previous year's message with the following group substitutions applied:*

- Group #1: 04275 -> 42348
- Group #3: 64494 -> 34234
- Group #11: 00067 -> 23494
- Group #21: 48731 -> 56858
- Group #50: 77974 -> 23423
- Group #56: 01475 -> 23441

*Note the insistence on the "234" sequence in the substituted groups. These alterations result in a 90% similarity. A portion of the payload before those substitutions is shared with that sent by F06 30132.*

**F06: 70048** (Russian embassy in Budapest):

F06 70048 used to follow a regular weekly schedule. Last known message, serial #15:  
> 2018-02-21/22 0800/0810/0820z 18923/17414/14949cf F06 11166 70048 35741 20015 01559

Last known scheduled null transmission:  
> 2020-08-13 0800/0810/0820z 11484/9328/7813cf F06 11166 70048 13579 13001 00049 00000 00000 00000 00000

*First logged reappearance during a sporadic event, same times and frequencies, message serial #16 - no gap from last known message:*

**10328/9420/7656 kHz, 25-03, 0800/0810/0820 UTC**

11166 70048 57138 25016 00599  
21517 17113 88106 78897 79965 76761 86374 57535 44054 57939  
16183 67811 39781 70757 77819 83170 67148 15115 71016 30169  
99596 91310 69184 08806 90141 71489 99191 19083 85969 85306  
60739 34441 86778 19764 53916 81438 45786 79301 51194 60076  
09874 87038 81101 70351 01301 99855 43649 85710 31968 44313  
36836 59167 65416 93851 35105 37904 13061 16057 00000

*Apart from the first digit, the message payload features no digit 2 - all 2 were replaced by the digit 1. Portions of the payload before that replacement are shared with those sent by F06 10020 (1500z), 00052, 90215 and 20218.*

**F06 90215** (Russian embassy in Ashgabat):

Not a previously known schedule - neither regular nor sporadic – but this ID had actually appeared before during a past sporadic event as F06a:  
> 2018-09-05 1100/1110/1120z 16345/14689/12197cf F06a file named 02-266 (1663 bytes) 11100 90215 68710 05002 02679, 5FG text file

**12211/9236/7525 kHz, 25-03/26-03, 1600/1610/1620 UTC**

11166 90215 25473 24001 00449  
90242 02489 99191 19083 85969 85306 60039 34441 86008 29064  
53926 81438 45086 09302 52194 60006 09804 80038 82102 00352  
05602 99855 43649 85010 32968 44313 36836 59260 65416 93851  
35105 30904 56062 05029 65012 21624 51090 80840 26560 63539  
52599 32305 01042 00000

*The message payload features no digit 7 - all 7 were replaced by the digit 0. Portions of the payload before that replacement are shared with those sent by F06 70048 and 20218.*

**F06 00052** (Russian embassy in Tel Aviv):

Last year's sporadic event's message, serial #22:

> 2025-03-26 1500/1510/1520z 17428/15646/12153cf F06 11166 00052 47361 25022 01119

**17428/15646/12153 kHz, 24-03/25-03, 1500/1510/1520 UTC**

11166 00052 96412 24022 01119

13825 74625 92783 38309 28293 84903 88530 53326 63280 00263  
35879 95582 56467 47258 48326 45322 54735 25896 38973 52858  
84642 36373 34700 65675 46390 53533 35509 83574 39377 98528  
94534 59673 37645 77365 58603 40850 67552 87442 54333 53667  
29300 29360 83697 98323 22287 76356 34347 74220 20556 54994  
78234 55399 50463 38733 73963 68236 32033 80629 03330 32674  
05397 27628 60335 62232 03466 06266 24423 69948 33373 89983  
20353 82765 94939 33900 47537 27223 88306 78897 79965 76763  
86374 57535 44054 57939 36283 67832 39782 70757 77829 83370  
67348 35235 73036 30369 99596 93330 69284 08806 90242 72489  
99393 39083 85969 85306 60739 34443 86778 29764 53926 22109  
00000

*Apart from the first digit, the message payload features no digit 1 - all 1 were replaced by the digit 3. Prior to that replacement, apart from the first digit again, the payload was an exact copy of the previous year's message, and it reuses message serial #22 as well. Portions of the payload before that replacement are shared with those sent by F06 10020 (1500z), 70048, 90215 and 20218.*

**F06 20218:**

Last year's sporadic event's message, serial #9:

> 2025-03-26 1550/1600/1610z 17454/14357/11556cf F06 11166 20218 75123 26009 00989

**17454/14357/11556kHz, 25-03, 1550/1600/1610**

11166 20218 60183 25010 00989

25509 82574 29277 98528 94514 59671 27645 77165 58602 40850  
67552 87442 54221 52667 29100 29260 81697 98122 22287 76256  
14147 74220 20556 54994 78224 55299 50462 28712 72961 68216  
12011 80629 01220 12674 05197 18628 60225 62212 02466 06266  
24422 69948 22272 89982 20151 81865 94919 21900 47517 18222  
88106 78897 79965 76761 86274 57525 44054 57929 16282 67812  
29782 70757 77829 82170 67148 15215 71016 20169 99596 91210  
69284 08806 90242 72489 99191 19082 85969 85206 60729 24441  
86778 29764 52926 81428 45786 79202 52194 60076 09874 87028  
82102 70252 05602 99855 42649 85710 10096 00000

*The message payload features no digit 3 - all 3 were replaced by the digit 2. Prior to that replacement, the payload was an exact copy of the previous year's message, except with all instances of the string "27" replaced by "18" (in groups #36, #46 and #50). This message uses the next message serial number though, #10. Portions of the payload before those substitutions are shared with those sent by F06 10020 (1500z), 70048, 00052 and 90215.*

**F06 10020** (Russian embassy in Amman):

Two different messages were actually logged for this ID this year. Last year's logged sporadic event's activity, message serial #2:

> 2025-03-26 1500/1510/1520z 20985/22933/24111cf F06 11166 10020 57821 26002 00899

**20985/22933/24111 kHz, 25-03, 1500/1510/1520 UTC**

11166 10020 58216 25003 00899

31696 57130 71825 74625 92783 38309 31291 84901 88510 51126  
63310 00261 15879 95582 56467 47258 48326 45122 54735 25896  
38973 53158 84642 36173 32330 65675 46190 51531 35509 83574  
39377 98531 94514 59671 37645 77165 58603 40850 67552 87442  
54331 53667 29100 29360 81697 98123 22317 76356 14147 74220  
20556 54994 78234 55399 50463 38713 73961 68216 12011 80629  
01330 12674 05197 27631 60335 62212 03466 06266 24423 69948  
33373 89983 20151 82765 94919 31900 47517 27223 88106 78897  
79965 76761 86374 57535 44054 57939 16313 03087 00000

*The payload is a copy of the previous year's message except with all instances of the string "28" replaced by "31" (in groups #1, #7,*

#11, #22, #32, #47, #64 and #87), and group #25 "34700" replaced by "32330", resulting in a 96% similarity. This message uses the next message serial number, #3. Portions of the payload before those substitutions are shared with those sent by F06 70048, 00052 and 20218.

Another transmission and message were logged for this ID an hour earlier, with serial #2:

**20929 kHz, 25-03, 1400 UTC**

**~22935 kHz, 25-03, 1410 UTC (waterfall only, unconfirmed)**

**???? kHz, 25-03, 1420 UTC not found**

11166 10020 85216 24002 00469  
96651 53263 56871 19487 58199 68621 84238 63944 24828 42177  
43245 40041 49654 94255 07334 21219 79561 04534 03061 34036  
41109 46449 30428 78493 07738 93446 62876 28032 32564 72084  
26964 35768 62471 55803 22692 48586 97460 97719 50058 66484  
90646 44718 82506 42581 02044 00000

*A portion of the payload is shared with that sent by F06 10053. It's not clear whether this message #2 at 1400z is supposed to be considered aside from any continuity with the message #3 at 1500z which was an edited copy of message #2 from the previous year, but there is apparently no shared content between those two. In any case we have no log of any message #1.*

**F06 10053** (Russian embassy in New Delhi):

A well-known ID, with two different currently active weekly schedules, and a previous monthly F06a TXT 5LG schedule discontinued in 2024. We have no previous log of ID 10053 during a sporadic event, and presume no connection between those known schedules and this sporadic transmission with message serial #2:

**26215/20993/18054 kHz, 25-03, 1300/1310/1320 UTC**

11166 10053 58392 25002 00779  
38035 89374 75693 89578 47922 72893 73420 02398 09470 34830  
98787 46854 76097 63807 33237 96393 00925 40445 95323 04329  
30832 50722 93053 36947 92378 66080 38439 63403 59008 33079  
77425 30943 83833 93735 43533 92339 33742 03993 37243 33496  
75288 37353 64607 49395 43938 64348 97055 25492 66743 42986  
63344 06670 96333 53843 56873 39487 58399 68623 84238 63944  
24828 42377 43245 40043 49334 94255 07334 23239 79563 04534  
03063 34036 43309 46449 30428 02075 00000

*The message payload features no digit 1 - all 1 were replaced by the digit 3. A portion of the payload before that replacement is shared with that sent by F06 10020 (1400z). Like with F06 10020, we have no log of a previous message #1.*

**F06 30132** (Russian embassy in Belgrade):

Known sporadic schedule; no activity logged during last year's sporadic event, no previous message serial #3 logged.

**13418/12067/11049 kHz, 24-03/25-03, 1030/1040/1050 UTC**

11166 30132 34952 24004 00589  
65829 39522 99860 34846 32450 86599 50868 84383 58286 65958  
94956 65562 88983 85434 90683 04938 48839 90892 38050 22838  
95360 38899 80498 98932 40986 96428 34586 80999 80093 26805  
30394 92928 39649 42063 58680 38386 98269 95699 96688 93483  
23096 68698 80884 94660 53003 88984 86502 08489 94559 99892  
36398 09485 06006 45528 00408 09299 04056 00000

*The message payload features no digits 1 or 7 - all 1 were replaced by the digit 9, and all 7 were replaced by the digit 8. A portion of the payload before that replacement is shared with that sent by F01 1100z.*

**F06 10064** (Russian embassy in Damascus):

Known sporadic schedule; March 2023's sporadic event's message, serial #1:

> 2023-03-21/22 1400/1410/1420z 19948/17516/15731cf F06  
> 2023-03-21/22 1500/1510/1520z 19948/17516/15731cf F06  
> 11166 10064 56802 21001 01069

Last year's sporadic event's activity - F06 10064 was substituted with S06g 539:

> 2024-03-19/20 1400/1500z 19948/17516kHz S06g 539 60199 764 21  
> 67156 04241 69230 90484 94096 25382 94940 98581 83284 76076

> 09652 52361 25843 35153 47619 95787 83286 06032 15313 43887  
> 38993

**19948/17516/15731 kHz, 24-03/25-03, 1400/1410/1420 UTC**

**19948/17516/15731 kHz, 24-03/25-03, 1500/1510/1520 UTC**

11166 10064 32147 24002 00749

98480 83081 21832 02858 84304 18235 02090 90942 91290 93135

86218 83540 93519 50840 12001 39085 38304 06804 01859 01949

43048 95096 16034 00801 86309 09231 69403 35213 90860 36508

46156 04241 69230 90484 94096 25382 94940 98581 83284 06086

62636 23802 16026 91202 30600 89365 80862 53819 20259 81384

94206 86320 39838 06045 10650 02840 00629 03219 92300 61960

18059 09240 53208 69080 12060 00254 62589 80649 29565 53296

08969 98161 02072 00000

**17454 kHz, 25-03, 1523 UTC** transmitter for 1550z F06 20218 coming online accidentally transmitting F06 10064

*The message payload features no digit 7 - all 7 were replaced by the digit 0. Prior to that replacement, the entire payload apart from the first group was a reused portion from the March 2023 message (except for one different digit in group #26). This message uses the next message serial number, #2. It also includes a portion from last year's S06g message, because that message was already composed from two reused portions of the March 2023 message.*

**Note that on 25-03, 1525z, we can count 6 concurrent F06 transmissions logged on the air at the same time:**

- F06a 80159 on 11128 kHz
- F06 00052 on 12153 kHz
- F06 10064 on 15731 kHz
- F06 90017 on 15739 kHz
- F06 10064 on 17454 kHz accidentally through 1550z F06 20218's transmitter
- F06 10020 on 24111 kHz

*In conclusion, we are lead to remember how this practice of reusing message contents has been extensively observed in other Russian 6 schedules which we confidently consider as fake traffic. This could imply that activity during sporadic events is made of fake traffic as well. This is hardly a surprising result, with the regular and widespread nature of these events: what are the chances that what they all predictably come up with to send all at the same time, could be *\*that\** meaningful?*



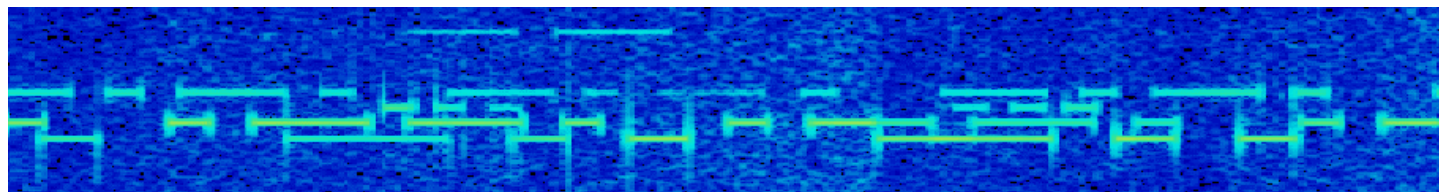
## MORSE STATIONS

### MX

Beacon v frequencies in March:

Fast beacon: 4031.0 (n), 5590.0 (d)

Slow beacon: 5445.0 (n), 7758.0 (d)



Cluster 10872 kHz. Active beacons: D, P, S, C, M.

**6510 kHz, 01-03, 0700 UTC. Lots of mistakes**

463 908 908 30 30 = =  
 58768 77980 48769 83874 58769 12143 1457678 57678 40989 4098  
 7090 90 59877 597 40948 494 37365 375 18 119 54797 3039 397  
 58769 11213 113 47589 48 60988 69 50984 51098 48769 37365 365  
 102 09 58908 58 41987 417 4762 44762 18566 566 0978478 47765 46  
 = = 908 908 30 30 000

**5475 kHz, 03-03, 1800 UTC**

463 566 566 30 30 = =  
 73643 38475 83743 76664 73643 89765 76544 86678 87900 27654  
 25830 67402 77392 73345 84567 12043 09876 34211 87654 83445  
 76543 90087 04567 11333 43432 78909 98785 00677 54546 45678  
 = = 566 566 30 30 000

**5020 kHz, 03-03, 2000 UTC. Error in red**

463 456 456 30 30 = =  
 58833 48903 89231 85956 75890 78300 59055 47883 22412 68902  
 89047 57422 68760 57749 09321 12432 12340 47584 **176323** 17623 48982  
 49037 57675 58948 34675 50983 5083 78431 69089 48392 50018 54327  
 = = = 456 456 30 30 000

**5465 kHz, 05-03, 1800 UTC. Errors and different repeats in red.**

463 290 290 30 30 = =  
 20691 68040 11862 04701 00592 76049 13876 99461 05809 94701  
 94610 20204 85920 76906 **76903** 12021 65037 98046 83920 13570 50091  
 85930 57491 67036 98034 97031 06035 **060635** 77041 64012 **6426041 60** 55031 **5031**  
 = = 902 902 30 30 000

**6260 kHz, 07-03, 1500 UTC**

463 982 982 30 30 = =  
 43221 20043 78091 09892 48330 00891 23440 94841 76902 98431  
 88790 65541 33412 56761 78987 77091 76534 76780 98801 87760  
 99230 43102 85009 87500 56602 76002 87652 78002 09981 90023  
 = = 982 982 30 30 000

**6510 kHz, 08-03, 0700 UTC. Errors in red**

463 561 561 30 30 = =  
 56650 43342 45657 78981 99872 87780 90023 76540 89023 87622  
 23411 44450 65500 88901 98007 43221 87652 67890 98777 89902  
 78860 23312 24401 45600 39765 89023 **890287087660** 87601 **01 89023 802 8790 790**  
 = 561 561 30 30 000 **Followed by a digital transmission**

**5475 kHz, 10-03, 1800 UTC**

463 098 098 30 30 = =  
 58301 65083 50190 87043 62089 76012 47600 37660 08680 47381  
 00641 87940 76032 76016 88941 49107 88591 08500 96331 79461  
 00651 49702 65891 76047 68390 79040 42750 00781 55672 05051  
 = = 098 098 30 30 000

**5020 kHz, 10-03, 2000 UTC**

463 461 461 30 30 = =  
 04718 97045 48109 00671 60944 38190 65041 62970 65110 50800  
 64098 19704 65035 76281 08012 43970 64860 28510 80604 20075  
 50461 88451 96730 60481 87040 54830 16408 08403 76881 97030  
 = = 461 461 30 30 000

**5475 kHz, 12-03, 1800 UTC**

463 756 30 756 30 = =  
 96860 48756 16254 33098 55876 10989 37658 33980 47565 33655  
 80980 69879 47656 35243 12134 57465 39870 44565 38769 40490  
 12134 34543 58766 55098 68678 44657 39870 66877 44980 35421  
 = = 756 30 756 30 000 **Followed by a digital transmission**

**5020 kHz, 12-03, 2000 UTC**

463 668 30 668 30 = =  
 69878 44986 22543 45611 49867 44768 56321 20978 33657 39866  
 56487 52435 10978 33567 40988 46534 16524 49870 58746 39870  
 33456 18756 40989 57688 36544 17658 49808 58768 23546 50987  
 = = 668 30 668 30 000 **Followed by a digital transmission**

**6260 kHz, 14-03, 1500 UTC. Errors in red**

463 873 873 30 30 = =  
 89002 88762 43344 65570 09802 09902 56789 09021 46222 75341  
 34552 32214 34561 78990 45544 45671 98702 74232 78002 00893  
 99001 23001 44521 78620 80091 78877 44331 **3178900 7900 9873** 74211  
 = = 873 873 30 30 000

**6510 kHz, 15-03, 0700 UTC**

463 471 471 30 30 = =  
 86091 09038 28610 53580 33318 40071 49720 89301 40481 99320  
 85027 19402 00471 79490 48841 38502 18593 05040 27530 01740  
 66297 30890 18027 49702 48839 12960 85100 38691 74930 05520  
 = = 471 471 30 30 000

**5475 kHz, 17-03, 1800 UTC**

463 874 30 874 30 = =  
 85769 38475 02837 28374 56473 75849 23142 97869 64859 28374  
 81234 23456 75647 24241 98768 18264 54736 92837 54756 18463  
 12754 45364 96875 23145 65647 57867 95643 61957 64728 85746  
 = = 874 30 874 30 000

**5020 kHz, 17-03, 2000 UTC**

463 183 30 183 30 = =  
 21435 76980 02937 96857 25163 96857 64736 07865 13243 75648  
 97865 75867 34534 53123 87967 65432 46821 28475 97657 28463  
 96835 73219 56486 22129 97865 21324 68324 95867 64758 27484  
 = = 183 30 183 30 000

**5475 kHz, 19-03, 1800 UTC**

463 193 193 30 30 = =  
 22314 44321 76341 89021 32441 56774 23415 98760 89231 55341  
 54678 23415 89076 54889 90321 23456 88119 70543 30421 66543  
 55990 15432 44008 50989 48675 30978 22431 38476 87654 00098  
 = = 193 193 30 30 000

**5020 kHz, 19-03, 2000 UTC**

463 876 876 30 30 = =  
 28475 97876 34989 49564 47567 57689 48570 19283 64382 19283  
 76754 43656 48375 19375 92478 10296 29384 38754 65473 47383  
 47765 01924 54987 23786 79657 34211 78900 65432 78990 76544  
 = = 876 876 30 30 000

**6260 kHz, 14-03, 1500 UTC**

463 416 416 30 30 = =  
 43089 40310 56300 37601 65980 35138 60409 56100 87455 83610  
 48391 65035 69090 47915 70365 86714 38671 93516 75945 12600  
 03713 86934 76037 15387 06813 60046 55613 97845 18403 07020  
 = = 416 416 30 30 000

**5475 kHz, 24-03, 1800 UTC**

463 240 240 30 30 = =  
 26484 19047 16424 86524 90714 72145 76185 80706 62417 82145  
 17482 76219 81452 62405 70590 24164 71824 80792 54305 27805  
 80245 68567 48765 80792 10123 80907 24056 78422 56745 80977  
 = = 240 240 30 30 000  
 Group 30 was not repeated

**5020 kHz, 24-03, 2000 UTC**

463 719 719 30 30 = =  
 26381 61847 90876 86815 64217 62384 16497 15423 90876 16124  
 76284 61824 96324 24672 09870 19749 24033 72309 13257 89064  
 28419 72843 12396 68576 66435 69087 23456 29090 57976 31547  
 = = 719 719 30 30 000  
 Groups 15 and 27 were not repeated

**5475 kHz, 26-03, 1800 UTC. Errors in red**

463 617 617 30 30 = =  
 85038 07936 07051 55739 10078 96035 07913 07953 57001 55720  
 97760 15480 86003 57133 87604 58015 76930 54055 17583 97050  
 06004 29580 50371 06650 46174 06046 28693 50045 **5004 681 56806684 668**  
 517 6 30 30 0000 **followed by two digital transmissions**

**5020 kHz, 26-03, 2000 UTC. Errors in red**

463 907 907 30 30 = =  
 50037 97025 76089 60058 00578 48140 06945 55116 87935 69803  
 57200 86940 30791 54716 58493 07069 55025 68139 70013 13  
 76930 99781 **9146590 6590 502 56** 60604 **6604 9701 70156730 5630**  
 60913 **613** 08057 **0805** 07937 00571  
 = = 907 907 30 30 000

**6260 kHz, 28-03, 1500 UTC**

463 480 480 30 30 = =  
 80609 74820 67498 08967 40890 60903 16500 67355 48143 57784  
 98003 65739 67500 16588 60940 36107 69471 08085 26584 47398  
 98057 35100 68503 70891 70047 57743 55187 98046 23870 57218  
 = = 480 480 30 30 000 **followed by a digital broadcast**

**5475 kHz, 31-03, 1800 UTC**

463 321 321 30 30 = = =  
 74363 46733 56343 78363 36743 74833 65323 63455 64377 47654  
 65372 87362 85744 56432 67533 45976 23766 64533 19376 00987  
 73476 35612 47354 65312 47634 48733 53533 00771 46453 77665  
 = = 321 321 30 30 000

**5020 kHz, 31-03, 2000 UTC**

463 554 554 30 30 = =  
 73846 35612 47653 65232 47363 48732 34562 36743 53262 36722  
 72365 56322 23651 45874 67543 56432 85744 87362 65372 45532  
 47836 64353 63453 65323 74863 36743 78364 56343 65778 90900  
 = = 554 554 30 30 000 **followed by a digital transmissions**

**M12**

12135/11452/10627 kHz, 1900/1920/1940 UTC

**12135/11452/10627 kHz, 01-03, 1900/1920/1940 UTC**

573 573 573 1 437 27 437 27  
 18685 99696 13895 98671 65820 68367 22242 38591 40440 16688  
 05473 15190 33053 13970 07014 00103 28542 45317 12556 57670  
 44748 53354 74848 03558 59972 91570 63029 000 000



**12135/11452/10627 kHz, 02-03/08-03, 1900/1920/1940 UTC**

573 573 573 1 6095 107 6095 107  
61087 91241 27668 62887 59612 22014 58527 07720 41549 77394  
85085 89813 50178 65834 31842 84146 75030 56049 48903 61443  
35773 28272 56985 45096 91152 87865 42094 31641 36670 44094  
28841 95877 04225 93093 21944 89731 17951 16470 18919 83773  
16929 92308 81178 00631 62589 17871 47912 00166 75374 89421  
34552 64247 45792 71692 01193 32815 34255 82571 71734 71745  
79918 26886 71049 97453 48553 89207 85587 57084 43890 42109  
66194 58560 37130 65129 44514 43463 47093 56353 82506 73280  
39952 41928 56265 47248 09542 64593 50084 32531 91899 89127  
55475 35379 44734 47173 03854 90041 21259 83723 52077 73380  
32282 90827 56275 33264 23226 75991 27116 000 000

**12135/11452/10627 kHz, 09-03, 1900/1920/1940 UTC**

573 573 573 1 3263 110 320 2363 110  
54045 16860 96714 59506 91767 73075 17196 02862 59903 88130  
42284 49992 22833 11946 82505 31042 11129 96521 69989 61597  
16370 42794 24796 60441 51869 12549 10629 15135 58792 88317  
69485 14385 48366 25363 80311 83033 66140 33525 04519 55678  
52691 39016 85152 64963 85184 99737 18146 34830 38642 67626  
36639 80202 83237 71438 33158 11250 92062 36272 07637 79217  
62446 02061 44069 71584 19615 27899 01626 97468 31634 99471  
64900 77602 92002 14310 08905 77353 89641 59832 75255 52130  
94401 75797 76491 91164 51677 89281 31147 76927 91703 69060  
90969 29867 25888 15300 93231 50630 94946 81566 46317 57285  
98111 20777 03196 39170 02725 59036 88199 68926 62532 56304  
000 000

**12135/11452/10627 kHz, 16-03, 1900/1920/1940 UTC**

573 573 573 1 7359 103 7359 103  
85538 21862 56736 35560 62382 82482 95274 43359 96513 49334  
58665 86378 95795 62280 35348 58751 79638 56035 39149 47872  
68373 94041 07190 47587 17351 22726 02081 21285 03399 74042  
56072 45139 79785 20521 80407 32009 83273 26708 41443 61024  
33530 50298 42882 78027 96058 42080 34392 66282 31599 81226  
68977 85500 73906 20278 46803 91495 14672 09049 18209 39656  
80401 73988 39959 22471 93261 13525 06592 75274 81872 03339  
75377 52930 14591 78123 14341 18074 51160 29161 51627 75269  
88332 35797 89685 22272 05064 70570 71231 59508 73717 88911  
17337 74223 08498 01787 80622 59540 10339 20410 84765 82533  
35487 59116 84409 000 000

**12135/11452/10627 kHz, 29-03, 1900/1920/1940 UTC**

48244 72872 98330 64381 36186 06754 45089 15936 02052 03682  
40714 26333 79235 23696 61244 49984 34655 37793 30216 53185  
08843 31436 16025 96419 70906 74428 60820 33735 67370 34721  
27021 95971 35686 73285 63244 25573 48705 29460 59800 97323  
65517 25545 61599 02131 71127 74827 91498 68825 20974 13883  
45017 22038 19839 70162 85031 16808 56846 01911 93473 61757  
45932 11353 48564 67329 76660 44741 90645 05949 60450 35670  
01279 05195 77991 32892 87667 83296 69835 13893 25291 96077  
82928 91994 12760 53486 89703 04982 76131 65523 88253 46435  
68725 46794 35985 98042 51390 54163 76979 94269 25470 26386  
84180 85548 08374 85302 12604 39821 44045 86946 ?2494 01734  
46972 42953 76618 97394 78827 53937 98591 95076 000 000

**12135/11452/10627 kHz, 30-03, 1900/1920/1940 UTC**

573 573 573 1 8276 115 8276 115  
37520 32616 88927 82846 61624 36908 78114 04937 81957 45091  
22889 73890 60762 29148 48958 74767 88567 54365 40419 21134  
96907 98953 49439 54297 00987 18054 07000 42319 17201 11684  
32546 05353 24813 76593 98838 68150 97122 92007 48000 81830



90001 94855 93028 09800 46563 96384 69586 89235 06591 14885  
12531 23842 10313 18707 78309 38566 83175 34630 81858 43569  
29907 35795 87734 70272 12545 17536 49077 84167 30308 80806  
77644 96559 06364 58587 31132 02052 05924 39639 07733 04602  
48466 17764 35727 02316 99152 08703 95038 06105 98282 60272  
84974 62492 10148 04430 51922 54206 07120 22755 97254 29027  
47306 85417 58926 25783 37239 15971 17477 51725 87574 76256  
32641 43536 26896 77256 95101 000 000

11564/10487/9319 kHz, 1900/1920/1940 UTC

**11564/10487/9319 kHz, 12-03/14-03, 1900/1920/1940 UTC**

258 258 258 1 2723 181 2723 181  
02645 30271 44693 07468 49052 04827 52192 94874 30015 74163  
12579 06196 66245 06946 11670 48741 58377 46725 69946 69922  
30121 50774 76077 58795 62424 01838 58163 35755 67119 02337  
44871 96097 24540 92986 24454 60822 92558 25703 99601 12856  
57627 88646 11005 42021 00925 54442 52491 57867 80946 50787  
74745 01601 16990 10186 33379 51869 54192 85897 45042 47213  
46662 16436 28755 27677 29292 16481 81554 73258 22492 50846  
56181 32674 47123 57089 12294 41474 39768 34056 57870 07981  
49346 00296 54808 15331 27590 43269 79106 14353 59607 72583  
06630 06661 80659 52388 66193 41191 59891 83326 12729 84442  
72787 79232 35374 30099 94604 42071 54477 59900 97891 91903  
12101 20136 28027 37061 97866 46365 61626 13424 00087 86022  
37373 67301 13650 49907 44215 49520 52013 94733 90895 71102  
81581 56440 21327 73426 35193 70112 64920 24709 20725 85518  
88790 19206 16461 67702 60482 86493 78632 43598 54520 19827  
79563 46467 83239 26705 47068 05486 65582 85466 85483 45084  
90056 59742 69003 26708 10322 55659 98808 54599 01867 27754  
81444 36917 92697 14568 97230 18167 50839 45946 89423 57721  
70886 000 000

**11564/10487/9319 kHz, 21-03, 1900/1920/1940 UTC**

258 258 258 1 6347 187 6347 187  
58866 05209 65001 81415 95209 97153 43710 71046 65105 03765  
23836 39755 12541 06136 26373 51490 75903 96679 26246 79358  
87044 71849 76819 69396 83058 18275 26257 03413 49127 10509  
63935 33153 21746 61881 06400 70658 01713 74802 48530 73122  
55829 64475 03085 37705 47705 70486 80108 66369 71608 76611  
56498 89784 58268 94907 88625 87015 28389 85603 98356 76934  
70896 40296 21918 54596 39829 90682 18008 50658 99734 55664  
49777 01101 48148 52723 23529 22568 68763 39116 31691 12572  
38165 59886 31804 72515 54009 74149 74883 26838 73255 19383  
42269 16109 76445 71595 02626 15532 42557 48488 97873 57022  
52477 29449 66633 15943 26833 55397 41635 05545 71377 66056  
18252 89271 53912 85783 48768 11009 08492 49402 00586 65678  
15798 91169 77401 80350 13395 33668 24654 76552 50096 07997  
80010 20275 41242 74667 60093 08715 93252 15860 45681 98611  
32514 69338 55460 07199 01131 52996 62195 90660 32826 91615  
07039 93154 47901 32194 41224 61307 52047 86282 02548 93164  
30742 65081 55447 63379 86045 97975 48029 79243 25689 30052  
17756 92631 03720 01973 33164 46549 35709 70202 79218 60397  
71471 33993 43725 58480 00958 86854 72373 000 000

**11564/10487/9319 kHz, 26-03/28-03, 1900/1920/1940 UTC**

258 258 258 1 9010 198 9010 198  
12116 53185 20371 53579 77947 91327 83401 58320 57818 29399  
95069 67346 37403 70958 97889 40092 64967 26398 63763 53525  
70743 92207 93035 56407 80969 65323 65372 71117 11735 71313  
86963 77448 03795 96988 00152 20893 91833 78455 83202 69137  
57422 31200 33481 50397 58273 71674 59127 13044 81296 12167  
17258 03146 17067 44086 24544 19907 60149 63963 72608 12624

25954 12284 46584 86503 42435 17620 63550 40413 70805 76996  
 48258 86510 43194 94625 96101 39542 58726 42637 98132 09295  
 06195 52328 89819 99566 54055 83817 60381 59707 72444 80244  
 60743 27870 05846 70578 43182 45138 84615 46977 07962 40653  
 08123 18714 42237 04300 63908 30746 59950 22441 47984 85000  
 61180 17511 65829 63313 06429 73624 22463 47016 32447 58616  
 57238 03843 67967 90560 16253 20387 80663 72615 51442 50962  
 54926 11749 34674 57479 01172 87479 10091 85519 35658 23308  
 23866 37940 11723 87443 19063 43231 62040 42532 64148 69556  
 22675 37598 14529 49345 83413 04280 50746 51676 88046 43521  
 50081 87334 70997 97020 30073 49431 82835 08349 62141 18948  
 63533 36942 11358 09138 34749 19298 92119 80522 71496 73020  
 58346 38131 08466 81884 28287 17328 97218 85328 74064 96890  
 36733 58413 97472 92136 73226 36530 66941 000 000

10218/9167 kHz, 2220/2240 UTC

#### 10218/9167 kHz, 06-03, 2220/2240 UTC

521 521 521 1 4411 62 4411 62  
 53388 04782 95791 66143 40002 06411 50889 37785 22108 88269  
 47101 83939 24080 95952 40599 38844 39421 31530 74219 15300  
 84202 09966 40724 25336 66865 20129 67429 73772 80109 66010  
 75135 38646 91860 58289 33720 53677 61424 26167 18473 31050  
 25013 32148 80104 77321 47379 78556 32004 70216 02979 91142  
 80810 45226 99269 83791 73513 73748 70494 39742 61630 70986  
 09181 94132 000 000

## M14

#### 12211/10243 kHz, 30-03, 0500/0520 UTC

##### 12211 kHz, 31-03, 0500 UTC

##### 10243 kHz, 31-03, 0524 UTC. Briefly a carrier. No transmission

952 807 807 60 60 = =  
 91075 56451 21100 81560 30420 70851 15366 33239 41731 17828  
 81568 16863 02869 38521 59571 77115 43141 73877 01150 83116  
 34286 88323 32127 57405 31164 41979 57170 18710 79345 97335  
 36963 86530 31778 71355 92418 20979 41725 68907 15638 96303  
 24164 58498 92290 31554 02820 76218 65110 26796 85043 68853  
 93190 78350 31699 12087 86765 71453 14264 64746 22176 73812  
 = = 807 807 60 60 00000

## M23

#### 6806 kHz

|                 |                                           |
|-----------------|-------------------------------------------|
| 04-03, 0605 UTC | 0000 (R) (off at 0709z)                   |
| 05-03, 0456 UTC | i.p. 33333 (R) non stop (off at 0759z)    |
| 06-03, 0522 UTC | i.p. 33333 (R) non-stop (off at 0759z)    |
| 08-03, 0500 UTC | 33333 (R) non-stop (off at 0759z)         |
| 10-03, 0330 UTC | i.p. non-stop 7 (off at 0331z)            |
| 10-03, 0345 UTC | Non-stop 7 (off at 0553z)                 |
| 10-03, 1957 UTC | 0 (R25m) every 30 min.                    |
| 11-03, 0557 UTC | 0 (R) Off 0654z                           |
| 11-03, 0728 UTC | 0 (R) Off 0753z                           |
| 11-03, 1958 UTC | 0 non-stop. Not audible after ca 2200z    |
| 11-03, 1958 UTC | 0 non-stop. Not audible after ca 2200z    |
| 12-03, 0458 UTC | 0 (R5m30s), 3 (R4m), 7 (R4m) (sent twice) |
| 12-03, 0658 UTC | 0 (R5m30s), 3 (R4m), 7 (R4m) (sent twice) |
| 12-03, 0858 UTC | 0 (R5m30s), 3 (R4m), 7 (R4m) (sent twice) |
| 12-03, 2058 UTC | 0 (R5m30s), 3 (R4m), 7 (R4m) (sent twice) |
| 13-03, 0258 UTC | 3 (R25m)                                  |

**18307 kHz**

08-03, 1027 UTC 33333 (R)  
 09-03, 0904 UTC Non-stop Dash, 0 (R), silence, 3 (R), silence 7 (R), silence 0 (R), silence, Dash, silence (repeated)  
 09-03, 1259 UTC Non-stop Dash, 0 (R), silence, 3 (R), silence 7 (R), silence 0 (R), silence, Dash, silence (repeated)  
 09-03, 1900 UTC Non-stop Dash, 0 (R), silence, 3 (R), silence 7 (R), silence 0 (R), silence, Dash, silence (repeated)  
 Faded out at 1945z  
 10-03, 0857 UTC 0 (R25m) every 30 mins. Off at 1953z  
 10-03, 2228 UTC 0 (R25m) every 30 mins. Off at 0553z  
 11-03, 0758 UTC 0 (R25m) every 30 mins. Off at 1952z  
 12-03, 1058 UTC 0 (R5m30s), 3 (R4m), 7 (R4m) (sent twice)  
 12-03, 1258 UTC 0 (R5m30s), 3 (R4m), 7 (R4m) (sent twice)  
 12-03, 1458 UTC 0 (R5m30s), 3 (R4m), 7 (R4m) (sent twice)  
 12-03, 1658 UTC 0 (R5m30s), 3 (R4m), 7 (R4m) (sent twice)  
 12-03, 1858 UTC 0 (R5m30s), 3 (R4m), 7 (R4m) (sent twice)  
 13-03, 1458 UTC 3 (R25m)

**6961.5, 16-03, 1408 UTC**

RP DE VM QRK 5 QSA 5 K  
 DE RP QRK 3 QSA 2 K  
 DE RP NR 2 1602 26  
 AA BESOIN REVISION MOTO  
 BB SORTIE ANNULEE =  
 AR AR

**6961.5 kHz, 16-03, 1425 UTC**

VVVV VVVVV VVVV  
 01150 32628 68434 61874 51278 24122 55497 00965 58338 79018  
 23815 40231 65854 75553 72556 62282 60092 70009 72730 41641  
 44338 70994 65872 39127 27422 41586 03628 40731 29561 81970  
 (message repeated) AR AR

**6961.5 kHz**

16-03, 1625 UTC VVVV VVVVV VVVV 01150 32628 68434 ... 40731 29561 81970 (message repeated) AR AR  
 17-03, 1010 UTC VVVV VVVVV VVVV 01150 32628 68434 ... 40731 29561 81970 (message repeated) AR AR  
 17-03, 1035 UTC VVVV VVVVV VVVV 01150 32628 68434 ... 40731 29561 81970 (message repeated) AR AR  
 17-03, 1057 UTC VVVV VVVVV VVVV 01150 32628 68434 ... 40731 29561 81970 (message repeated) AR AR  
 17-03, 1210 UTC VVVV VVVVV VVVV 01150 32628 68434 ... 40731 29561 81970 (message repeated) AR AR  
 17-03, 1227 UTC VVVV VVVVV VVVV 01150 32628 68434 ... 40731 29561 81970 (message repeated) AR AR  
 17-03, 1713 UTC VVVV VVVVV VVVV 01150 32628 68434 ... 40731 29561 81970 (message repeated) AR AR  
 17-03, 1756 UTC VVVV VVVVV VVVV 01150 32628 68434 ... 40731 29561 81970 (message repeated) AR AR  
 18-03, 0657 UTC VVVV VVVVV VVVV 01150 32628 68434 ... 40731 29561 81970 (message repeated) AR AR  
 18-03, 0808 UTC VVVV VVVVV VVVV 01150 32628 68434 ... 40731 29561 81970 (message repeated) AR AR  
 18-03, 0832 UTC VVVV VVVVV VVVV 01150 32628 68434 ... 40731 29561 81970 (message repeated) AR AR  
 18-03, 0910 UTC VVVV  
 18-03, 0911 UTC 55555 50505 55555 50505 55555 50505 55 off  
 18-03, 0947 UTC 55555 50505 (R) faded to nil  
 18-03, 1015 UTC 55555 50505 (R10m42s)  
 18-03, 1527 UTC 55555 50505 (R1m36s)  
 18-03, 1531 UTC 55555 50505 (R45s)  
 18-03, 1533 UTC 55555 50505 (R25s)  
 18-03, 1534 UTC 50505 00000 (R6m)  
 18-03, 1536 UTC 50505 55555 (R33s)  
 18-03, 1536 UTC 55555 50505 (R45s)  
 18-03, 1537 UTC 50505 55555 (R41s)  
 18-03, 1539 UTC 50505 00000 (R59s)  
 18-03, 1546 UTC 50505 00000 (R13m)  
 18-03, 1713 UTC 50505 00000 (R12m)  
 18-03, 1728 UTC 55005 55555 (R10m)  
 18-03, 1743 UTC 55005 05050 (R11m50s)  
 18-03, 1758 UTC 50505 55555 (R10m)  
 18-03, 1818 UTC 50505 05050 R11m50s)  
 18-03, 1758 UTC 50505 55555 (R10m)  
 18-03, 1818 UTC 50505 05050 (R11m50s)

|                 |                      |
|-----------------|----------------------|
| 18-03, 1836 UTC | 50505 00000 (R13m)   |
| 19-03, 1650 UTC | 50505 05500 (R10m)   |
| 19-03, 1730 UTC | 55005 05500 (R13m)   |
| 19-03, 1747 UTC | 00550 05500 (R13m)   |
| 21-03, 1015 UTC | 55005 05500 (R3m)    |
| 21-03, 1021 UTC | 55005 05500 (R6m)    |
| 21-03, 1700 UTC | 00005 05500 (R1h5m)  |
| 21-03, 1800 UTC | 50000 05500 (R12m)   |
| 22-03, 1700 UTC | 00005 55555 (R10m8s) |
| 22-03, 1715 UTC | 00550 55555 (R7m38s) |
| 22-03, 1730 UTC | 55005 55555 (R8m12s) |
| 22-03, 1745 UTC | 50505 55555 (R8m43s) |
| 22-03, 1800 UTC | 50000 55555 (R9m52s) |

23-03, 0945 UTC      01230 32617 66110 50088 12890 55989 59792 03202 22509 79916  
54819 82619 53964 01203 39790 91489 15977 82107 21277  
(message repeated) AR AR

|                 |                      |
|-----------------|----------------------|
| 23-03, 1845 UTC | 55005 55555 (R5m25s) |
| 23-03, 1900 UTC | 50505 55555 (R5m)    |
| 24-03, 1115 UTC | 50505 05050 (R6m)    |
| 24-03, 1130 UTC | 55005 55555 (R5m30s) |
| 24-03, 1145 UTC | 00550 00000 (R7m)    |
| 24-03, 1200 UTC | 00005 55555 (R6m)    |

**25-03/29-03      No reports / not heard**

#### 13958 kHz

|                 |                                                         |
|-----------------|---------------------------------------------------------|
| 30-03, 1600 UTC | 5 (R), 7 (R), 0 (R), 3 (R), 7 (R). Off at 1723z         |
| 30-03, 1627 UTC | 0 (R), 3 (R), 7 (R), 0 (R), 3 (R), 7 (R). Off at 1653z  |
| 31-03, 1557 UTC | 0 (R), 3 (R), 7 (R), 0 (R), 3 (R), 7 (R). Off after 25m |
| 31-03, 1627 UTC | 0 (R), 3 (R), 7 (R), 0 (R), 3 (R), 7 (R). Off after 25m |

#### 10380 kHz

|                 |                                      |
|-----------------|--------------------------------------|
| 31-03, 1257 UTC | 50505 55550 05550 05500 55005 (R25m) |
| 31-03, 1327 UTC | 50505 55550 05550 05500 55005 (R25m) |

**Interesting additional notes regarding the BPSK-63 and morse chats, provided by linkz.**

Linkz says: *Indeed there is a connection between M23 & those guys I believe. Here are my notes*

Frequencies:

4951.0 USB  
6961.0 USB  
8030.0 USB

Using fake french ham callsigns :

F8VME (most active)  
F6KMB (official but spoofed radio-club callsign - RC J.BART MAISON SCIENCES 59140 DUNKERQUE)  
F8RPS  
F8XZD

-- Short IDs (Morse) when morse is in use, stations are using zero beat freq --

VM = F8VME  
KM = F6KMB  
IS = F?IS?  
RP = F8RPS  
ME = ?????

-- JS8Call decoding samples --

F8VME: @HB HEARTBEAT JN07  
F6KMB:  
F8RPS:

F8VME: METAR LFOZ 270655Z 28030KTG14KT 9999 FG BKN082 30/30 Q1000 BECMG= - (outdated METAR) note: LFOZ (Orléans–Saint-Denis-de-l'Hôtel) airport is 13km away east from JN07 grid locator  
 F8XZD: METAR LFOZ 192058Z 29005KT 9999 -RA -4/-9 Q1026 NOSIG= - (outdated METAR)  
 F8XZD: METAR LFOZ 192058Z 30027KT 3000 -RA SCT083 28/21 Q987 TEMPO= (outdated METAR)  
 F8XZD: METAR LFOZ 192058Z 26002KT 9999 FEW027 SCT073 -3/-6 Q1009 TEMPO= (outdated METAR)  
 F8XZD: METAR LFOZ 192058Z 02021KTG12KT 9999 SCT068 24/21 Q1007 TEMPO= (outdated METAR)  
 F8VME: METAR LFOZ 270655Z 28030KTG14KT 9999 FG BKN082 30/30 Q1000 BECMG= (outdated METAR)  
 F8XZD: METAR LFOZ 192058Z 29005KT 9999 -RA -4/-9 Q1026 NOSIG= (outdated METAR)  
 F8XZD: F8VME SNR?  
 F8VME: F8XZD SNR +13  
 F8RPS: F8VME 00000 55555 00000 55555 TEST  
 F8XZD: F8VME MSG TEST HX-  
 F8VME: F8XZD ACK

-- BPSK-63 decoding sample --  
 "test test test de F8VME k" offset +1500Hz

## UM10 - 10-minutes net

UM10 changed its callsigns on 3 March. Thanks JP.

Callsigns are repeated for 10 minutes on two parallel frequencies. We haven't heard any other traffic in years.

### Callsign JZZN

3531/4310 kHz, 01-03 UTC, JZZN (1240 – 1250)  
 3531/4310 kHz, 01-03 UTC, JZZN (2110 – 2120)

### Callsign VI4T

3250/3975 kHz, 01-03 UTC, VI4T (1405 – 1415)  
 3250/3975 kHz, 01-03 UTC, VI4T (2035 – 2045)

### Callsign 7CJK

3718/3210 kHz, 03-03, 7CJK (1210 – 1220)  
 3718/3210 kHz, 03-03, 7CJK (1240 – 1250)  
 3718/3210 kHz, 04-03, 7CJK (1740 – 1750)  
 3718/3210 kHz, 06-03, 7CJK (1210 – 1220)  
 3718/3210 kHz, 08-03, 7CJK (1710 – 1720)  
 3718/3210 kHz, 10-03, 7CJK (1710 – 1720)  
 3718/3210 kHz, 13-03, 7CJK (1540 – 1550)  
 3718 kHz, 22-03, 7CJK (1540 – 1018)  
 3718/3210 kHz, 26-03, 7CJK (1540 – 1550)  
 3718/3210 kHz, 30-03, 7CJK (1840 – 1850)

### Callsign U34D

3326/4112 kHz, 03-03 UTC, U34D (1220 – 1230)  
 3326/4112 kHz, 03-03 UTC, U34D (1350 – 1400)  
 3326/4112 kHz, 04-03 UTC, U34D (1750 – 1800)  
 3326/4112 kHz, 07-03 UTC, U34D (1620 – 1630)  
 3326/4112 kHz, 10-03 UTC, U34D (1720 – 1730)  
 3326/4112 kHz, 27-03 UTC, U34D (1650 – 1700)  
 4112 kHz, 30-03 UTC, U34D (1850 – 1900)

**4735 kHz, 01-03, 0800 UTC**

VVV VVV PROMRCh = 01 03 =

1000 0930 0980 1150 1660  
1200 1040 1090 1270 1800  
1400 0990 1030 1190 1680  
1600 0960 1010 1180 1670  
1800 0790 0830 0960 1360  
2000 0540 0570 0650 0910  
2200 0430 0440 0500 0690  
0000 0410 0420 0480 0640  
0200 0410 0420 0470 0630  
0400 0420 0430 0480 0650  
0600 0370 0390 0450 0630  
0800 0680 0730 0880 1290

= ABV

VVV VVV PROMRCh = 01 03 =

1000 0930 0980 1150 1660  
1200 1040 1090 1270 1800  
1400 0990 1030 1190 1680  
1600 0960 1010 1180 1670  
1800 0790 0830 0960 1360  
2000 0540 0570 0650 0910  
2200 0430 0440 0500 0690  
0000 0410 0420 0480 0640  
0200 0410 0420 0470 0630  
0400 0420 0430 0480 0650  
0600 0370 0390 0450 0630  
0800 0680 0730 0880 1290

= AR

**4735 kHz, 02-03, 0800 UTC**

VVV VVV PROMRCh = 02 03 =

1000 0970 1020 1190 1700  
1200 1080 1120 1300 1820  
1400 1020 1070 1220 1710  
1600 1000 1040 1210 1710  
1800 0820 0860 0990 1390  
2000 0560 0580 0670 0940  
2200 0440 0460 0510 0700  
0000 0420 0430 0490 0650  
0200 0420 0430 0480 0640  
0400 0420 0440 0490 0660  
0600 0380 0400 0460 0640  
0800 0690 0740 0890 1310

= ABV

VVV VVV PROMRCh = 02 03 =

1000 0970 1020 1190 1700  
1200 1080 1120 1300 1820  
1400 1020 1070 1220 1710  
1600 1000 1040 1210 1710  
1800 0820 0860 0990 1390  
2000 0560 0580 0670 0940  
2200 0440 0460 0510 0700  
0000 0420 0430 0490 0650  
0200 0420 0430 0480 0640  
0400 0420 0440 0490 0660  
0600 0380 0400 0460 0640  
0800 0690 0740 0890 1310

= AR

**4735 kHz, 03-03, 0800 UTC**

VVV VVV PROMRCh = 03 03 =

1000 0930 0990 1160 1670  
1200 1040 1090 1270 1790  
1400 1000 1040 1200 1690  
1600 0980 1020 1190 1690  
1800 0810 0830 0990 1390  
2000 0560 0580 0670 0940  
2200 0430 0450 0510 0700  
0000 0420 0430 0480 0640  
0200 0410 0420 0470 0630  
0400 0420 0430 0490 0650  
0600 0380 0400 0450 0630  
0800 0690 0730 0890 1310

= ABV

VVV VVV PROMRCh = 03 03 =

1000 0930 0990 1160 1670  
1200 1040 1090 1270 1790  
1400 1000 1040 1200 1690  
1600 0980 1020 1190 1690  
1800 0810 0830 0990 1390  
2000 0560 0580 0670 0940  
2200 0430 0450 0510 0700  
0000 0420 0430 0480 0640  
0200 0410 0420 0470 0630  
0400 0420 0430 0490 0650  
0600 0380 0400 0450 0630  
0800 0690 0730 0890 1310

= AR

**4735 kHz, 04-03, 0800 UTC**

VVV VVV PROMRCh = 04 03 =

1000 0940 0990 1160 1660  
1200 1050 1090 1260 1790  
1400 1000 1050 1200 1690  
1600 0980 1030 1190 1690  
1800 0820 0870 1020 1460  
2000 0560 0590 0670 0940  
2200 0440 0450 0510 0700  
0000 0420 0430 0480 0640  
0200 0410 0420 0480 0630  
0400 0420 0440 0490 0660  
0600 0380 0400 0460 0630  
0800 0690 0740 0890 1310

= ABV

VVV VVV PROMRCh = 04 03 =

1000 0940 0990 1160 1660  
1200 1050 1090 1260 1790  
1400 1000 1050 1200 1690  
1600 0980 1030 1190 1690  
1800 0820 0870 1020 1460  
2000 0560 0590 0670 0940  
2200 0440 0450 0510 0700  
0000 0420 0430 0480 0640  
0200 0410 0420 0480 0630  
0400 0420 0440 0490 0660  
0600 0380 0400 0460 0630  
0800 0690 0740 0890 1310

= AR

**4735 kHz, 05-03, 0800 UTC**

VVV VVV PROMRCh = 05 03 =

1000 0940 0990 1150 1660  
1200 1050 1100 1270 1790  
1400 1020 1060 1220 1700  
1600 0980 1030 1190 1690  
1800 0840 0880 1030 1480  
2000 0570 0600 0690 0960  
2200 0440 0460 0520 0710  
0000 0430 0440 0490 0650  
0200 0410 0430 0480 0630  
0400 0430 0440 0490 0660  
0600 0380 0400 0450 0630  
0800 0690 0740 0890 1310

= ABV

VVV VVV PROMRCh = 05 03 =

1000 0940 0990 1150 1660  
1200 1050 1100 1270 1790  
1400 1020 1060 1220 1700  
1600 0980 1030 1190 1690  
1800 0840 0880 1030 1480  
2000 0570 0600 0690 0960  
2200 0440 0460 0520 0710  
0000 0430 0440 0490 0650  
0200 0410 0430 0480 0630  
0400 0430 0440 0490 0660  
0600 0380 0400 0450 0630  
0800 0690 0740 0890 1310

= AR

**4735 kHz, 06-03, 0800 UTC**

VVV VVV PROMRCh = 06 03 =

1000 0940 0990 1160 1660  
1200 1050 1100 1270 1780  
1400 1010 1060 1210 1700  
1600 0990 1040 1200 1690  
1800 0850 0890 1040 1500  
2000 0580 0610 0690 0970  
2200 0450 0470 0530 0720  
0000 0430 0440 0500 0660  
0200 0420 0430 0480 0640  
0400 0430 0450 0500 0670  
0600 0380 0400 0460 0630  
0800 0700 0750 0900 1320

= ABV

VVV VVV PROMRCh = 06 03 =

1000 0940 0990 1160 1660  
1200 1050 1100 1270 1780  
1400 1010 1060 1210 1700  
1600 0990 1040 1200 1690  
1800 0850 0890 1040 1500  
2000 0580 0610 0690 0970  
2200 0450 0470 0530 0720  
0000 0430 0440 0500 0660  
0200 0420 0430 0480 0640  
0400 0430 0450 0500 0670  
0600 0380 0400 0460 0630  
0800 0700 0750 0900 1320

= AR

**4735 kHz, 07-03, 0800 UTC**

VVV VVV PROMRCh = 07 03 =

1000 1030 1070 1240 1760  
1200 1140 1180 1350 1870  
1400 1090 1130 1290 1780  
1600 1050 1090 1260 1760  
1800 0900 0950 1100 1570  
2000 0620 0650 0740 1020  
2200 0480 0500 0560 0750  
0000 0450 0460 0520 0680  
0200 0440 0450 0500 0660  
0400 0450 0460 0510 0680  
0600 0390 0410 0470 0640  
0800 0710 0760 0910 1340

= ABV

VVV VVV PROMRCh = 07 03 =

1000 1030 1070 1240 1760  
1200 1140 1180 1350 1870  
1400 1090 1130 1290 1780  
1600 1050 1090 1260 1760  
1800 0900 0950 1100 1570  
2000 0620 0650 0740 1020  
2200 0480 0500 0560 0750  
0000 0450 0460 0520 0680  
0200 0440 0450 0500 0660  
0400 0450 0460 0510 0680  
0600 0390 0410 0470 0640  
0800 0710 0760 0910 1340

= AR

**4735 kHz, 08-03, 0800 UTC**

VVV VVV PROMRCh = 08 03 =

1000 0930 0980 1150 1640  
1200 1050 1000 1270 1780  
1400 1030 1070 1230 1710  
1600 1000 1040 1200 1609  
1800 0870 0910 1070 1530  
2000 0600 0630 0720 1000  
2200 0470 0490 0550 0740  
0000 0440 0450 0510 0670  
0200 0430 0440 0490 0650  
0400 0440 0460 0510 0670  
0600 0390 0410 0460 0640  
0800 0710 0750 0460 1330

= ABV =

VVV VVV PROMRCh = 08 03 =

1000 0930 0980 1150 1640  
1200 1050 1000 1270 1780  
1400 1030 1070 1230 1710  
1600 1000 1040 1200 1609  
1800 0870 0910 1070 1530  
2000 0600 0630 0720 1000  
2200 0470 0490 0550 0740  
0000 0440 0450 0510 0670  
0200 0430 0440 0490 0650  
0400 0440 0460 0510 0670  
0600 0390 0410 0460 0640  
0800 0710 0750 0460 1330

= AR

**4735 kHz, 09-03, 0800 UTC****Note the extra null**

VVV VVV PROMRCh = 09 03 =  
 1000 0940 0990 1160 1650  
 1200 1070 1110 1280 1790  
 1400 1040 1090 1240 1720  
 1600 1010 1060 1220 1710  
 1800 0890 0930 1090 1550  
 2000 0610 0440 0730 1010  
 2200 0480 0490 0560 0750  
 0000 0450 0460 0510 0670  
 0200 0440 0450 0500 0660  
 0400 0450 0460 0510 0680  
 0600 0390 0410 0470 0640  
 0800 0710 0760 0910 1340  
 = ABV  
 VVV VVV PROMRCh = 09 03 =  
 1000 0940 0990 1160 1650  
 1200 1070 1110 1280 1790  
 1400 1040 1090 1240 1720  
 1600 1010 1060 1220 1710  
 1800 0890 0930 1090 1550  
 2000 0610 0440 0730 1010  
 2200 0480 0490 0560 0750  
 0000 0450 0460 0510 0670  
 0200 0440 0450 0500 0660  
 0400 0450 0460 0510 0680  
 0600 0390 0410 0470 0640  
 0800 0710 0760 0910 1340  
 = AR

**4735 kHz, 10-03, 0800 UTC**

VVV VVV PROMRCh 10 03 =  
 1000 0940 0990 1150 1650  
 1200 1070 1110 1280 1790  
 1400 1040 1080 1230 1720  
 1600 1010 1050 1010 1700  
 1800 0900 0940 1100 1570  
 2000 0620 0650 0740 1030  
 2200 0480 0500 0560 0760  
 0000 0450 0460 0520 0680  
 0200 0440 0450 0500 0670  
 0400 0450 0470 0520 0690  
 0600 0400 0410 0470 0650  
 0800 0720 0760 0920 1340  
 = ABV  
 VVV VVV PROMRCh 10 03 =  
 1000 0940 0990 1150 1650  
 1200 1070 1110 1280 1790  
 1400 1040 1080 1230 1720  
 1600 1010 1050 1010 1700  
 1800 0900 0940 1100 1570  
 2000 0620 0650 0740 1030  
 2200 0480 0500 0560 0760  
 0000 0450 0460 0520 0680  
 0200 0440 0450 0500 0670  
 0400 0450 0470 0520 0690  
 0600 0400 0410 0470 0650  
 0800 0720 0760 0920 1340  
 = AR

**4735 kHz, 11-03, 0800 UTC**

VVV VVV PROMRCh = 11 03 =  
 1000 0940 0990 1150 1630  
 1200 1060 1110 1270 1780  
 1400 1040 1080 1240 1710  
 1600 1010 1060 1220 1700  
 1800 0910 0950 1110 1570  
 2000 0630 0660 0750 1040  
 2200 0490 0510 0570 0770  
 0000 0460 0470 0520 0690  
 0200 0440 0450 0500 0670  
 0400 0460 0470 0520 0690  
 0600 0400 0420 0470 0650  
 0800 0720 0760 0920 1340  
 = ABV  
 VVV VVV PROMRCh = 11 03 =  
 1000 0940 0990 1150 1630  
 1200 1060 1110 1270 1780  
 1400 1040 1080 1240 1710  
 1600 1010 1060 1220 1700  
 1800 0910 0950 1110 1570  
 2000 0630 0660 0750 1040  
 2200 0490 0510 0570 0770  
 0000 0460 0470 0520 0690  
 0200 0440 0450 0500 0670  
 0400 0460 0470 0520 0690  
 0600 0400 0420 0470 0650  
 0800 0720 0760 0920 1340  
 = AR

**4735 kHz, 12-03, 0800 UTC**

VVV VVV PROMRCh = 12 03 =  
 1000 0940 0980 1150 1630  
 1200 1060 1110 1270 1780  
 1400 1040 1090 1240 1720  
 1600 1020 1060 1220 1700  
 1800 0920 0960 1120 1590  
 2000 0540 0660 0760 1050  
 2200 0500 0520 0580 0780  
 0000 0470 0480 0530 0700  
 0200 0450 0460 0510 0670  
 0400 0460 0480 0530 0700  
 0600 0400 0420 0470 0650  
 0800 0720 0770 0920 1340  
 = ABV  
 VVV VVV PROMRCh = 12 03 =  
 1000 0940 0980 1150 1630  
 1200 1060 1110 1270 1780  
 1400 1040 1090 1240 1720  
 1600 1020 1060 1220 1700  
 1800 0920 0960 1120 1590  
 2000 0540 0660 0760 1050  
 2200 0500 0520 0580 0780  
 0000 0470 0480 0530 0700  
 0200 0450 0460 0510 0670  
 0400 0460 0480 0530 0700  
 0600 0400 0420 0470 0650  
 0800 0720 0770 0920 1340  
 = AR

**4735 kHz, 14-03, 0800 UTC**

VVV VVV PROMRCh = 14 03 =  
 1000 0930 0980 1140 1620  
 1200 1060 1100 1260 1760  
 1400 1060 1100 1250 1740  
 1600 1030 1070 1230 1710  
 1800 0940 0980 1140 1620  
 2000 0660 0690 0780 1080  
 2200 0510 0530 0600 0800  
 0000 0470 0490 0540 0700  
 0200 0460 0480 0520 0680  
 0400 0470 0490 0540 0710  
 0600 0400 0420 0480 0660  
 0800 0720 0770 0920 1340  
 = ABV  
 VVV VVV PROMRCh = 14 03 =  
 1000 0930 0980 1140 1620  
 1200 1060 1100 1260 1760  
 1400 1060 1100 1250 1740  
 1600 1030 1070 1230 1710  
 1800 0940 0980 1140 1620  
 2000 0660 0690 0780 1080  
 2200 0510 0530 0600 0800  
 0000 0470 0490 0540 0700  
 0200 0460 0480 0520 0680  
 0400 0470 0490 0540 0710  
 0600 0400 0420 0480 0660  
 0800 0720 0770 0920 1340  
 = AR

**4735 kHz, 15-03, 0800 UTC**

**No PROMRCh !**  
 VVV VVV = 15 03 =  
 1000 0930 0980 1130 1610  
 1200 1050 1100 1250 1740  
 1400 1050 1100 1240 1730  
 1600 1020 1070 1220 1700  
 1800 0940 0980 1100 1610  
 2000 0660 0690 0780 1080  
 2200 0520 0530 0600 0800  
 0000 0480 0490 0540 0710  
 0200 0460 0470 0520 0680  
 0400 0480 0490 0540 0720  
 0600 0410 0420 0480 0660  
 0800 0720 0770 0920 1340  
 = ABV  
 VVV VVV = 15 03 =  
 1000 0930 0980 1130 1610  
 1200 1050 1100 1250 1740  
 1400 1050 1100 1240 1730  
 1600 1020 1070 1220 1700  
 1800 0940 0980 1100 1610  
 2000 0660 0690 0780 1080  
 2200 0520 0530 0600 0800  
 0000 0480 0490 0540 0710  
 0200 0460 0470 0520 0680  
 0400 0480 0490 0540 0720  
 0600 0410 0420 0480 0660  
 0800 0720 0770 0920 1340  
 = AR

**4735 kHz, 16-03, 0800 UTC**

VVV VVV PROMRCh = 16 03 =  
 1000 0920 0960 1120 1590  
 1200 1050 1090 1250 1740  
 1400 1050 1090 1240 1720  
 1600 1010 1060 1210 1690  
 1800 0930 0980 1140 1610  
 2000 0670 0700 0790 1080  
 2200 0520 0540 0610 0810  
 0000 0480 0490 0540 0710  
 0200 0460 0470 0520 0680  
 0400 0480 0490 0540 0710  
 0600 0410 0420 0480 0660  
 0800 0720 0770 0910 1340  
 = ABV  
 VVV VVV PROMRCh = 16 03 =  
 1000 0920 0960 1120 1590  
 1200 1050 1090 1250 1740  
 1400 1050 1090 1240 1720  
 1600 1010 1060 1210 1690  
 1800 0930 0980 1140 1610  
 2000 0670 0700 0790 1080  
 2200 0520 0540 0610 0810  
 0000 0480 0490 0540 0710  
 0200 0460 0470 0520 0680  
 0400 0480 0490 0540 0710  
 0600 0410 0420 0480 0660  
 0800 0720 0770 0910 1340  
 = AR

**4735 kHz, 17-03, 0800 UTC**

VVV VVV PROMRCh = 17 03 =  
 1000 0910 0950 1110 1570  
 1200 1040 1080 1230 1720  
 1400 1050 1090 1240 1710  
 1600 1000 1050 1190 1670  
 1800 0930 0970 1130 1610  
 2000 0670 0700 0790 1090  
 2200 0530 0550 0610 0810  
 0000 0480 0490 0540 0720  
 0200 0460 0470 0520 0690  
 0400 0480 0490 0540 0720  
 0600 0410 0420 0480 0660  
 0800 0710 0760 0910 1330  
 = ABV  
 VVV VVV PROMRCh = 17 03 =  
 1000 0910 0950 1110 1570  
 1200 1040 1080 1230 1720  
 1400 1050 1090 1240 1710  
 1600 1000 1050 1190 1670  
 1800 0930 0970 1130 1610  
 2000 0670 0700 0790 1090  
 2200 0530 0550 0610 0810  
 0000 0480 0490 0540 0720  
 0200 0460 0470 0520 0690  
 0400 0480 0490 0540 0720  
 0600 0410 0420 0480 0660  
 0800 0710 0760 0910 1330  
 = AR

**4735 kHz, 18-03, 0800 UTC**

VVV VVV PROMRCh = 18 03 =  
 1000 0900 0940 1090 1550  
 1200 1030 1070 1230 1710  
 1400 1040 1080 1230 1700  
 1600 1000 1040 1190 1660  
 1800 0930 0980 1130 1610  
 2000 0670 0700 0790 1090  
 2200 0530 0540 0610 0810  
 0000 0380 0490 0540 0720  
 0200 0460 0470 0520 0680  
 0400 0480 0490 0540 0710  
 0600 0410 0420 0480 0660  
 0800 0710 0760 0900 1320  
 = ABV

VVV VVV PROMRCh = 18 03 =  
 1000 0900 0940 1090 1550  
 1200 1030 1070 1230 1710  
 1400 1040 1080 1230 1700  
 1600 1000 1040 1190 1660  
 1800 0930 0980 1130 1610  
 2000 0670 0700 0790 1090  
 2200 0530 0540 0610 0810  
 0000 0380 0490 0540 0720  
 0200 0460 0470 0520 0680  
 0400 0480 0490 0540 0710  
 0600 0410 0420 0480 0660  
 0800 0710 0760 0900 1320  
 = AR

**4735 kHz, 22-03, 0800 UTC**

VVV VVV PROMRCh = 22 03 =  
 1000 0860 0910 1050 1500  
 1200 1010 1050 1190 1660  
 1400 1020 1060 1210 1680  
 1600 0960 1000 1150 1600  
 1800 0920 0970 1130 1600  
 2000 0680 0710 0800 1110  
 2200 0530 0550 0610 0810  
 0000 0480 0490 0550 0720  
 020E 0450 0460 0520 0670  
 0400 0470 0490 0540 0710  
 0600 0400 0420 0470 0650  
 0800 0700 0740 0890 1300  
 = ABV

VVV VVV PROMRCh = 22 03 =  
 1000 0860 0910 1050 1500  
 1200 1010 1050 1190 1660  
 1400 1020 1060 1210 1680  
 1600 0960 1000 1150 1600  
 1800 0920 0970 1130 1600  
 2000 0680 0710 0800 1110  
 2200 0530 0550 0610 0810  
 0000 0480 0490 0550 0720  
 020E 0450 0460 0520 0670  
 0400 0470 0490 0540 0710  
 0600 0400 0420 0470 0650  
 0800 0700 0740 0890 1300  
 = AR

**4735 kHz, 19-03, 0800 UTC**

VVV VVV PROMRCh = 19 03 =  
 1000 0840 0880 1040 1480  
 1200 0980 1020 1170 1640  
 1400 0990 1030 1180 1650  
 1600 0950 0990 1140 1600  
 1800 0900 0940 1100 1570  
 2000 0660 0680 0780 1070  
 2200 0510 0530 0600 0800  
 0000 0470 0480 0530 0700  
 0200 0450 0460 0510 0680  
 0400 0470 0480 0540 0710  
 0600 0400 0420 0480 0650  
 0800 0700 0750 0890 1310  
 = ABV

VVV VVV PROMRCh = 19 03 =  
 1000 0840 0880 1040 1480  
 1200 0980 1020 1170 1640  
 1400 0990 1030 1180 1650  
 1600 0950 0990 1140 1600  
 1800 0900 0940 1100 1570  
 2000 0660 0680 0780 1070  
 2200 0510 0530 0600 0800  
 0000 0470 0480 0530 0700  
 0200 0450 0460 0510 0680  
 0400 0470 0480 0540 0710  
 0600 0400 0420 0480 0650  
 0800 0700 0750 0890 1310  
 = AR

**4735 kHz, 23-03, 0800 UTC**

VVV VVV PROMRCh = 23 03 =  
 1000 0870 0910 1060 1510  
 1200 1030 1050 1200 1670  
 1400 1020 1060 1210 1670  
 1600 0950 0990 1140 1590  
 1800 0920 0970 1120 1600  
 2000 0690 0710 0810 1110  
 2200 0530 0550 0610 0820  
 0000 0480 0490 0550 0720  
 0200 0450 0460 0520 0680  
 0400 0470 0490 0540 0710  
 0600 0400 0420 0470 0650  
 0800 0690 0740 0890 1300  
 = ABV

VVV VVV PROMRCh = 23 03 =  
 1000 0870 0910 1060 1510  
 1200 1030 1050 1200 1670  
 1400 1020 1060 1210 1670  
 1600 0950 0990 1140 1590  
 1800 0920 0970 1120 1600  
 2000 0690 0710 0810 1110  
 2200 0530 0550 0610 0820  
 0000 0480 0490 0550 0720  
 0200 0450 0460 0520 0680  
 0400 0470 0490 0540 0710  
 0600 0400 0420 0470 0650  
 0800 0690 0740 0890 1300  
 = AR

**4735 kHz, 20-03, 0800 UTC**

VVV VVV PROMRCh = 20 03 =  
 1000 0880 0930 1080 1520  
 1200 1020 1060 1210 1680  
 1400 1030 1070 1220 1690  
 1600 0980 1010 1170 1630  
 1800 0930 0970 1130 1600  
 2000 0670 0700 0790 1090  
 2200 0530 0540 0610 0810  
 0000 0480 0490 0540 0720  
 0200 0460 0470 0520 0680  
 0400 0480 0490 0540 0710  
 0600 0400 0420 0480 0650  
 0800 0700 0750 0900 1310  
 = ABV

VVV VVV PROMRCh = 20 03 =  
 1000 0880 0930 1080 1520  
 1200 1020 1060 1210 1680  
 1400 1030 1070 1220 1690  
 1600 0980 1010 1170 1630  
 1800 0930 0970 1130 1600  
 2000 0670 0700 0790 1090  
 2200 0530 0540 0610 0810  
 0000 0480 0490 0540 0720  
 0200 0460 0470 0520 0680  
 0400 0480 0490 0540 0710  
 0600 0400 0420 0480 0650  
 0800 0700 0750 0900 1310  
 = AR

**4735 kHz, 24-03, 0800 UTC**

VVV VVV PROMRCh = 24 03 =  
 1000 0850 0890 1040 1480  
 1200 1000 1040 1190 1660  
 1400 1010 1050 1200 1660  
 1600 0930 0970 1120 1570  
 1800 0910 0950 1110 1590  
 2000 0680 0710 0810 1110  
 2200 0530 0550 0610 0810  
 0000 0480 0490 0550 0720  
 0200 0450 0460 0520 0680  
 0400 0470 0490 0540 0710  
 0600 0400 0410 0470 0640  
 0800 0680 0730 0880 1290  
 = ABV

VVV VVV PROMRCh = 24 03 =  
 1000 0850 0890 1040 1480  
 1200 1000 1040 1190 1660  
 1400 1010 1050 1200 1660  
 1600 0930 0970 1120 1570  
 1800 0910 0950 1110 1590  
 2000 0680 0710 0810 1110  
 2200 0530 0550 0610 0810  
 0000 0480 0490 0550 0720  
 0200 0450 0460 0520 0680  
 0400 0470 0490 0540 0710  
 0600 0400 0410 0470 0640  
 0800 0680 0730 0880 1290  
 = AR

**4735 kHz, 21-03, 0800 UTC**

VVV VVV PROMRCh = 21 03 =  
 1000 0870 0910 1060 1510  
 1200 1010 1050 1200 1670  
 1400 1030 1070 1220 1680  
 1600 0970 1010 1150 1610  
 1800 0920 0970 1120 1600  
 2000 0670 0700 0800 1090  
 2200 0530 0540 0610 0810  
 0000 0480 0490 0540 0710  
 0200 0460 0470 0520 0680  
 0400 0480 0490 0540 0710  
 0600 0400 0420 0470 0650  
 0800 0700 0740 0890 1310  
 = ABV

VVV VVV PROMRCh = 21 03 =  
 1000 0870 0910 1060 1510  
 1200 1010 1050 1200 1670  
 1400 1030 1070 1220 1680  
 1600 0970 1010 1150 1610  
 1800 0920 0970 1120 1600  
 2000 0670 0700 0800 1090  
 2200 0530 0540 0610 0810  
 0000 0480 0490 0540 0710  
 0200 0460 0470 0520 0680  
 0400 0480 0490 0540 0710  
 0600 0400 0420 0470 0650  
 0800 0700 0740 0890 1310  
 = AR

**4735 kHz, 25-03, 0759 UTC**

VVV VVV PROMRCh = 25 03 =  
 1000 0840 0880 1030 1470  
 1200 0980 1020 1170 1640  
 1400 0990 1030 1180 1640  
 1600 0920 0960 1110 1560  
 1800 0900 0940 1100 1570  
 2000 0670 0700 0800 1100  
 2200 0520 0540 0590 0800  
 0000 0470 0480 0540 0710  
 0200 0450 0460 0510 0670  
 0400 0460 0470 0530 0700  
 0600 0390 0410 0470 0640  
 0800 0680 0720 0870 1280  
 = ABV

VVV VVV PROMRCh = 25 03 =  
 1000 0840 0880 1030 1470  
 1200 0980 1020 1170 1640  
 1400 0990 1030 1180 1640  
 1600 0920 0960 1110 1560  
 1800 0900 0940 1100 1570  
 2000 0670 0700 0800 1100  
 2200 0520 0540 0590 0800  
 0000 0470 0480 0540 0710  
 0200 0450 0460 0510 0670  
 0400 0460 0470 0530 0700  
 0600 0390 0410 0470 0640  
 0800 0680 0720 0870 1280  
 = AR



**4735 kHz, 26-03, 0800 UTC**

Test tones VVV VVV PROMRCh = 26 03 =

1000 0830 0870 1020 1460  
 1200 0970 1010 1160 1620  
 1400 0980 1020 1170 1630  
 1600 0910 0950 1100 1550  
 1800 0980 0930 1090 1560  
 2000 0670 0690 0790 1080  
 2200 0510 0530 0590 0790  
 0000 0460 0480 0530 0690  
 0200 0440 0450 0500 0660  
 0400 0450 0460 0520 0680  
 0600 0390 0400 0460 0630  
 0800 0670 0710 0860 1270

= ABV 19sec silence, 11 test tones, 4sec silence

VVV VVV PROMRCh = 26 03 =

1000 0830 0870 1020 1460  
 1200 0970 1010 1160 1620  
 1400 0980 1020 1170 1630  
 1600 0910 0950 1100 1550  
 1800 0980 0930 1090 1560  
 2000 0670 0690 0790 1080  
 2200 0510 0530 0590 0790  
 0000 0460 0480 0530 0690  
 0200 0440 0450 0500 0660  
 0400 0450 0460 0520 0680  
 0600 0390 0400 0460 0630  
 0800 0670 0710 0860 1270

= AR 1min test tones then off

**4753 kHz, 27-09, 0800 UTC**

VVV VVV PROMRCh = 27 03 =

1000 0820 0860 1010 1450  
 1200 0960 1000 1150 1600  
 1400 1070 1010 1160 1620  
 1600 0890 0940 1080 1530  
 1800 0880 0930 1080 1550  
 2000 0660 0690 0770 1080  
 2200 0500 0520 0580 0770  
 0000 0460 0470 0520 0430  
 0200 0430 0440 0500 0650  
 0400 0450 0450 0510 0680  
 0600 0380 0400 0460 0630  
 0800 0660 0710 0850 1260

= ABV

VVV VVV PROMRCh = 27 03 =

1000 0820 0860 1010 1450  
 1200 0960 1000 1150 1600  
 1400 1070 1010 1160 1620  
 1600 0890 0940 1080 1530  
 1800 0880 0930 1080 1550  
 2000 0660 0690 0770 1080  
 2200 0500 0520 0580 0770  
 0000 0460 0470 0520 0430  
 0200 0430 0440 0500 0650  
 0400 0450 0450 0510 0680  
 0600 0380 0400 0460 0630  
 0800 0660 0710 0850 1260

= AR

**4735 kHz, 28-03, 0800 UTC**

VVV VVV PROMRCh = 28 03 =

1000 0810 0850 1000 1430  
 1200 0950 0990 1130 1590  
 1400 0960 1010 1150 1610  
 1600 0880 0930 1070 1520  
 1800 0880 0920 1080 1550  
 2000 0600 0690 0780 1080  
 2200 0500 0520 0580 0780  
 0000 0460 0470 0520 0690  
 0200 0430 0440 0490 0640  
 0400 0440 0450 0500 0670  
 0600 0380 0400 0450 0620  
 0800 0650 0700 0850 1250

= ABV

VVV VVV PROMRCh = 28 03 =

1000 0810 0850 1000 1430  
 1200 0950 0990 1130 1590  
 1400 0960 1010 1150 1610  
 1600 0880 0930 1070 1520  
 1800 0880 0920 1080 1550  
 2000 0600 0690 0780 1080  
 2200 0500 0520 0580 0780  
 0000 0460 0470 0520 0690  
 0200 0430 0440 0490 0640  
 0400 0440 0450 0500 0670  
 0600 0380 0400 0450 0620  
 0800 0650 0700 0850 1250

= AR

**4735 kHz, 29-03, 0700 UTC**

VVV VVV PROMRCh = 29 03 =

1000 0810 0850 1000 1430  
 1200 0950 0990 1130 1590  
 1400 0970 1010 1160 1620  
 1600 0890 0930 1080 1530  
 1800 0890 0930 1090 1560  
 2000 0670 0700 0790 1080  
 2200 0500 0520 0580 0780  
 0000 0450 0470 0520 0690  
 0200 0420 0430 0490 0640  
 0400 0440 0450 0500 0660  
 0600 0380 0390 0450 0620  
 0000 0650 0700 0850 1250

= ABV

VVV VVV PROMRCh = 29 03 =

1000 0810 0850 1000 1430  
 1200 0950 0990 1130 1590  
 1400 0970 1010 1160 1620  
 1600 0890 0930 1080 1530  
 1800 0890 0930 1090 1560  
 2000 0670 0700 0790 1080  
 2200 0500 0520 0580 0780  
 0000 0450 0470 0520 0690  
 0200 0420 0430 0490 0640  
 0400 0440 0450 0500 0660  
 0600 0380 0390 0450 0620  
 0000 0650 0700 0850 1250

= AR

**4735 kHz, 30-03, 0701 UTC**

VVV VVV PROMRCh = 30 03 =

1000 0810 0850 1000 1430  
 1200 0950 0990 1140 1600  
 1400 0980 1020 1160 1630  
 1600 0890 0940 1080 1540  
 1800 0890 0930 1090 1550  
 2000 0670 0700 0790 1090  
 2200 0500 0520 0580 0780  
 0000 0460 0470 0520 0690  
 0200 0520 0430 0490 0640  
 0400 0430 0450 0500 0660  
 0600 0380 0390 0450 0620  
 0800 0660 0700 0850 1250

= ABV

VVV VVV PROMRCh = 30 03 =

1000 0810 0850 1000 1430  
 1200 0950 0990 1140 1600  
 1400 0980 1020 1160 1630  
 1600 0890 0940 1080 1540  
 1800 0890 0930 1090 1550  
 2000 0670 0700 0790 1090  
 2200 0500 0520 0580 0780  
 0000 0460 0470 0520 0690  
 0200 0520 0430 0490 0640  
 0400 0430 0450 0500 0660  
 0600 0380 0390 0450 0620  
 0800 0660 0700 0850 1250

= AR

**4735 kHz, 31-03, 0700 UTC**

VVV VVV PROMRCh = 31 03 =

1000 0810 0850 1000 1440  
 1200 0950 0990 1140 1600  
 1400 0980 1020 1170 1630  
 1600 0890 0930 1080 1530  
 1800 0890 0930 1090 1560  
 2000 0670 0700 0790 1090  
 2200 0500 0520 0580 0780  
 0000 0450 0070 0520 0690  
 0200 0420 0430 0480 0640  
 0400 0430 0440 0490 0660  
 0600 0380 0090 0450 0620  
 0800 0650 0700 0840 1250

= ABV

VVV VVV PROMRCh = 31 03 =

1000 0810 0850 1000 1440  
 1200 0950 0990 1140 1600  
 1400 0980 1020 1170 1630  
 1600 0890 0930 1080 1530  
 1800 0890 0930 1090 1560  
 2000 0670 0700 0790 1090  
 2200 0500 0520 0580 0780  
 0000 0450 0070 0520 0690  
 0200 0420 0430 0480 0640  
 0400 0430 0440 0490 0660  
 0600 0380 0090 0450 0620  
 0800 0650 0700 0840 1250

= AR



## DIGITAL MODES

### F01

An interesting F01/F06 combi showed up on 25 and 26 March. Logged by PY.

13370/11538/10614 kHz, 25-03, 0230/0240/0250 UTC. Not monitored

|                            |                                                                                                                                         |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| 13370 kHz, 26-03, 0230 UTC | Message below                                                                                                                           |
| 11538 kHz, 26-03, 0240 UTC | Message below. Modulation ended after 3m30s                                                                                             |
| 11538 kHz, 26-03, 0245 UTC | F06 500Hz shift, 11100 00209 16387 26326 00049 00000 00000 00000 00000 interruptions in modulation, ended on modulation issues at 0249z |
| 10614 kHz, 26-03, 0250 UTC | No transmission                                                                                                                         |

#### F01 transcript:

26354 64680 61757 83659 47275 18421 77218 00140 52419 \_\_\_\_\_  
\_\_\_\_\_ 68721 57851 23441 17032 67899 35383 56325 92649  
27267 65082 01443 62962 10565 80758 78398 53803 60992 43600  
94092 79428 23639 \_\_\_\_\_ 39501 35768 84876 42259  
78256 77982 72022 27784 02010 13245 10044 22357 77172 00456  
02549 64789 76680 73689 42011 02651 35728 09658 90655 15607  
81208 43649 04004 51538 68055 19969 26796 25275 04657 87779  
15997 51981 94544 78295 70301 14475 70541 24259 71666 87639  
10549 07622 67154 68393 81171 46447 47183 84672 76352 56820  
99013 81845 43230 50863 40465 10016 12374 56699 63485 60635  
74613 71320 42274 25874 71631 82314 85647 79178 92516 19373  
38324 08465 53455 21520 60824 94368 82766 31001 42678 75009  
38443 49773 28608 15690 50412 19528 62401 86976 04678 11189  
78133 31592 51557 34813 93454 49571 25181 05849 84601 92098  
06448 28671 47847 87480 46631 83347 77051 47682 93807 26555  
12029 28865 89318 42605 37386 44376 26425 05491 36547 53600  
88362 37919 30642 75144 07985 78247 56937 97766 16166 91267  
66517 87498 71162 83775 45877 14398 86127 10865 92142 47364  
\_\_\_\_\_ 90465 37609 15969 16105 59197 15250 66159  
37451 20128 02138 67530 63720 42355 86707 53172 \_\_\_\_\_  
\_\_\_\_\_ 07504 63559 63707 65797 17877 85870 85988 23312 98397  
65216 26509 45158 05309 95492 93099 37258 77078 88338 \_\_\_\_\_  
\_\_\_\_\_ 47474 35866 80024 08830 02897 98348 \_\_\_\_\_  
\_\_\_\_\_ 11747 80900 50055 40705 83114 89803 65730 29092 46089  
64859 16830 38203 32272 61712 44733 65733 59117 87518 59710  
10471 05251 00000 00000 +++++

F01 – FSK 200/500 Mon-Fri schedule

#### 10861/8187/6939 kHz, 02-03, 1015/1025/1035 UTC

79958 92176 02632 10164 91217 74023 03601 93504 99511 69040  
24441 16630 60443 53650 14339 35800 81955 75749 28664 82334  
67980 66685 57625 49637 72334 04508 11277 61969 61315 20678  
21801 29641 08420 67421 49025 20317 69630 87908 00093 01131  
12708 56462 99227 31272 98920 80968 68546 09769 40659 84677  
05829 08114 83361 09599 70208 42459 85193 08651 11706 65032  
92923 18778 05551 79495 37426 32211 77222 09901 97244 08054  
29155 77960 03669 91397 05034 68297 85742 32134 52637 86373  
78662 20669 71140 38781 43982 82717 53833 90587 75077 00364  
62192 79413 86297 51583 92225 90941 09252 85409 19048 25534

44654 74926 30620 10655 43182 15289 86574 38779 13767 58942  
63083 35477 82768 05245 69701 87361 52468 86663 49113 84588  
32308 18746 95730 57591 41327 06046 54076 12746 05231 21195  
82887 96645 96513 99304 95882 43681 91098 14890 15125 86599  
39914 33499 97918 34751 78845 55237 23181 49692 25506 92370  
48223 72836 36265 48208 71879 84854 21965 89427 64920 01488  
45762 29056 53689 35482 51541 62279 67899 79323 96333 22270  
88526 88456 85170 48224 56741 69683 31821 82792 29808 04423  
93844 41088 94900 61522 55396 18476 76759 79307 56226 29304  
00137 21559 90305 93794 92965 37097 22519 15254 41188 77676  
96861 14809 31180 53859 34581 15851 40710 33571 45688 95369  
64376 13016 02296 44375 84446 14646 47206 04585 23053 91865  
36188 73565 36664 45165 37384 95527 38789 79361 36288 79946  
61831 56649 19722 15200 94049 25130 37254 69421 52548 27525  
63500 95739 78239 19746 09736 84104 63723 54021 58267 26884  
50006 06257 17991 90410 53008 52322 24584 09681 05797 22955  
33757 48384 27473 91960 81015 91447 54663 77401 06363 62293  
96539 60468 67374 81985 99315 51701 89099 12462 31156 59276  
24210 51035 23427 39021 21838 68352 29234 30861 28552 06994  
85186 11372 69891 82909 87319 17143 85905 56871 17109 18623  
19139 68137 78530 49137 78489 47503 32085 18781 27388 51943  
36733 67848 69729 88012 35686 39513 31993 16218 46969 76422  
64999 53519 44720 70917 13724 16175 42140 23543 28619 70100  
12040 89550 16881 80934 05933 18080 57087 81002 57589 13698  
25663 95359 82004 74990 08583 94103 05716 89896 96785 63145  
89405 92462 88699 10622 28722 10712 48347 51148 44265 60317  
92443 35077 96668 63759 04946 14979 87717 99657 02473 66503  
33434 11977 99047 05834 20083 33765 43591 70906 79013 05150  
28604 58583 41297 90246 93486 34979 58077 22685 70916 61107  
97589 34437 49730 01058 54774 47631 52756 04878 34419 34044  
53012 83338 93786 72403 00000 +++++ +++++ +++++

**10861/8187/6939 kHz, 03-03, 1015/1025/1035 UTC**

69896 21902 81900 12061 90189 24907 81102 11283 13985 40413  
31797 83204 29019 08630 17720 34956 88206 55447 49835 03952  
66577 70820 27023 05070 15949 75930 40612 97084 15806 71297  
83702 73011 43798 83038 51208 04071 14310 49456 41558 91955  
58531 15152 95998 09082 44475 24844 36427 31517 60362 34075  
87701 94271 09837 79006 95361 23643 92426 72486 74688 26294  
67697 18566 52063 39764 26533 62662 84534 74082 17990 19560  
68558 99194 05147 46425 73824 57868 48399 53028 63129 08779  
39636 66364 84209 29458 35727 91847 44496 73087 00000

67769 25810 00146 26695 29807 02297 99909 41359 28344 51036  
73797 11262 27738 35210 19628 10044 93923 48126 97176 77771  
08168 75784 09763 72617 44214 76341 70306 44900 57247 18650  
62798 88176 58095 47075 35113 47075 71144 64764 84114 86550  
99365 52562 18976 52254 44913 65753 13668 76702 58732 75836  
84535 10941 17603 49491 53920 86374 52058 81948 85746 36466  
73632 26941 04022 32988 74849 90419 30183 16505 00408 80236  
00235 25792 12998 28959 47594 55854 02183 32025 62618 99260  
09777 68418 64706 50454 70181 96044 47956 77744 89079 39008  
86280 92661 08965 08966 08938 71363 34913 27755 82414 07776  
19048 43476 59585 03162 27140 57217 82101 74107 00000 +++++  
+++++

**10861/8187/6939 kHz, 04-03, 1015/1025/1035 UTC**

21237 04877 75973 92555 88985 03887 92951 90119 55324 03858  
12628 79689 19561 09225 71601 91398 43075 55467 65213 66681  
31656 39573 93617 57344 74583 34194 26292 16917 45139 08926  
02212 70222 92219 07160 07840 72113 77761 51935 00146 91304  
39651 79235 66831 80238 84805 22160 40945 16928 42122 94412  
12083 29701 29981 46550 01358 40801 17974 93413 92329 89769

87575 36194 35070 22554 21416 27564 65569 57264 75854 53310  
07660 62546 16552 28910 49643 09475 21705 34487 12815 82922  
82654 36581 54072 63347 56538 70176 69788 14914 50685 79413  
93146 40913 43435 40437 02114 92394 71070 14810 80256 40966  
35548 06925 97562 51685 12724 23864 03483 16994 65746 61135  
49358 37612 93320 62723 82431 61358 67516 28897 78633 15805  
40820 70207 06318 95723 27108 31114 38145 91255 86238 31676  
53303 67736 66936 00754 97233 33124 87675 99143 91082 53956  
60227 56096 08032 05789 85583 67650 58720 69034 76917 30220  
52929 06157 89293 07876 29732 81143 60800 56748 73279 07212  
94789 55007 56426 33659 37929 11838 79366 07826 33729 53859  
95486 73085 56259 12425 41608 88808 53718 60237 14810 83238  
56555 70714 63024 75214 29836 98555 81589 25677 74528 04925  
32943 04899 07405 75708 31654 86376 74243 06277 61965 03318  
76018 51181 20052 28664 12766 62237 98169 64587 74812 63420  
52886 52396 36056 36013 24581 38787 28985 12452 00404 59388  
06122 02293 37877 25515 17578 98748 91328 25095 59415 39233  
08349 73688 72491 18343 88447 76539 96481 76712 21113 87605  
08765 14199 45447 76493 02859 00811 98573 39245 86095 83828  
45001 13907 01223 14561 04132 86821 01614 43157 18103 00585  
34788 54935 27147 99591 13907 46641 44655 74123 81956 66092  
49146 88907 98289 63636 35302 07083 02216 28864 91288 45521  
33333 11014 94518 22423 13286 46503 43073 83143 18633 42029  
64944 15177 99519 86670 72302 88239 23835 91435 52970 80385  
51550 79681 16290 76095 68910 76856 35574 47276 37190 72994  
54324 53111 35675 56398 48408 19691 03578 41955 61378 85365  
10565 42519 55131 22765 10580 56790 43072 73411 58662 72146  
97999 55862 95435 05846 51879 33338 28965 33046 29698 51749  
68657 75081 84593 84073 90911 46432 26432 42025 41179 83814  
61037 40936 02155 05845 82254 28806 82752 76707 84021 15444  
07585 72259 84661 62650 11601 72015 80558 21366 69603 25454  
71421 26739 15309 66073 24320 87028 29646 71633 68665 27306  
02981 94041 39352 73868 00957 07289 10218 90319 88632 46899  
85033 01241 92610 39318 38189 64408 05842 44681 22287 77470  
64787 61394 84804 30045 53644 65974 61039 37159 15295 86578  
35498 14973 73688 33660 88936 84735 97341 36193 73238 15886  
58627 56903 81298 44266 68563 84933 04126 26360 91769 29398  
92334 15508 71292 62239 64220 71032 17979 83856 27603 36210  
44085 09908 07629 75443 00000 +++++ +++++

**10861/8187/6939 kHz, 05-03, 1015/1025/1035 UTC**

74437 00399 02283 98084 64023 28367 48465 91482 97233 94561  
25382 31837 08227 47489 39100 42230 51159 26658 05804 71735  
87096 90880 62001 90161 76482 74385 13875 78597 50620 37965  
61744 95449 60593 07319 60554 22646 27061 15802 02342 21716  
39376 93744 31611 54408 77451 71550 29552 47556 54824 88747  
28055 06864 06339 26181 39432 09309 68907 03546 12816 28843  
28770 09433 53142 75082 33691 56079 63674 49674 93543 76026  
98001 50026 17701 02843 32441 75085 62692 03129 94792 12858  
88539 51972 10382 14350 47231 69055 51316 83631 51757 57582  
99906 38686 99149 13239 12193 22765 45966 76097 00000

31263 15570 43080 50501 61763 38015 89709 78989 97625 67921  
09690 18541 30650 94437 74524 30460 61281 64388 16363 40597  
19329 04632 33531 35775 89865 70294 25465 07196 73989 67324  
99222 51748 39130 22797 14769 67171 38606 01413 61207 01997  
05092 91625 81171 46219 47712 09835 85536 73621 07430 96079  
25655 71701 50422 99682 15297 20133 04137 78263 19492 03701  
65704 58575 52441 70638 37412 32587 51712 72325 68905 87269  
20878 45261 10819 91498 57811 21265 09525 88531 10805 76831  
97673 67485 29712 77083 00000 +++++

**10861/8187/6939 kHz, 06-03, 1015/1025/1035 UTC**

00000 00000 00000 00000 +++++ +++++

**10861/8187/6939 kHz, 09-03, 1015/1025/1035 UTC**

86165 65918 59594 09774 30930 19269 55128 37107 44727 17965  
17371 93229 55239 46879 77995 47995 44229 52305 30842 57502  
01638 06182 21810 57276 10241 23153 02902 76252 34320 97645  
86369 51248 10768 53157 59891 46608 66072 20937 48725 08718  
07623 90245 35772 10062 62761 97386 75484 62526 64038 45702  
62560 04623 04080 73696 41366 92324 08538 13510 67005 48212  
00535 06900 54005 48594 55052 70933 73517 53315 66695 30576  
85008 07921 79282 60357 13350 72875 50679 02311 07258 59518  
51325 52368 40026 77444 19897 32403 38466 23002 24530 90095  
51022 63583 03047 93829 90978 97413 80626 14792 15697 93507  
88353 13457 27834 41492 31083 72673 09467 65984 78060 44499  
25063 85198 74730 03007 54240 18487 99174 20229 40246 72489  
11624 07438 65096 60587 70457 88941 87316 35340 13163 00588  
03213 38607 25664 30164 17618 99018 48461 41879 35048 31515  
93039 52114 07207 18608 66956 48628 97769 78077 31062 70414  
50404 46780 37285 90380 70933 35255 20429 68053 59608 32821  
42395 64491 54413 67849 12305 36591 71341 52900 30915 52971  
52583 69406 32810 98628 58559 71599 24769 60560 64743 14360  
43767 11512 49203 34681 83047 34075 81802 41433 59688 52294  
51005 93114 22120 62985 89207 68284 21018 83949 82546 58350  
92007 61259 76120 37410 23630 02832 10555 88838 08996 30440  
50851 93287 04565 67385 93464 07810 44502 03988 62536 90778  
84023 08108 31223 52293 70195 72864 29068 34772 63608 18758  
21338 53391 59363 92367 71273 51090 80819 28820 21188 47803  
44526 70218 53347 88628 19790 57212 16577 20599 31305 35899  
29528 52761 78286 47249 96536 79241 68544 91233 97028 69986  
90942 82850 34383 58863 74669 42229 55217 83822 08759 86006  
75017 58784 20313 12159 71047 81961 34841 95482 28488 10291  
67176 35899 50734 54665 16390 26786 69787 75656 63148 35514  
17687 84411 92949 13374 44912 78414 93674 77093 96690 66796  
00896 29115 83164 64884 89371 08837 04330 62679 34177 91998  
15709 96942 89894 80391 45673 81584 61310 49099 00376 76045  
64055 43437 17204 96347 98620 42786 52717 98507 86191 33519  
15993 89012 39735 58181 83310 42019 68779 33141 55135 27986  
41322 51874 41312 83421 51303 16094 85428 76427 65086 61882  
64266 47733 45374 73046 23299 31904 76011 98858 34154 88418  
36095 18379 84986 97286 96847 18556 39702 98916 39677 78270  
26968 82898 18861 75538 44936 55410 17310 60033 92642 39914  
68819 58139 63986 90851 45276 02701 65259 25006 32237 04674  
42140 00234 41321 08859 27097 96244 32866 00900 43148 77117  
47266 57740 24893 40248 68442 58729 42779 81401 67881 99552  
41522 30577 02673 76188 28625 38348 65995 77417 00000 +++++

**10861/8187/6939 kHz, 10-03, 1015/1025/1035 UTC**

79727 25474 35949 08667 57206 65781 68744 62448 42604 12648  
89465 33060 05998 57736 37850 01302 36894 51202 52730 76634  
34146 19994 07301 92297 75253 83131 29257 24735 07253 74895  
60483 10777 26374 11859 35971 61008 38654 64709 86676 92777  
18696 20794 95978 31260 08759 48315 64447 52032 25368 98138  
62593 63582 65632 04126 76299 53205 30457 67941 74608 44712  
06835 39274 54570 41388 76410 27400 42819 52653 42503 05038  
58582 27840 92767 90418 67799 45544 39692 18523 83040 31980  
06118 37410 88920 06772 47956 90589 97678 79630 31315 71353  
64630 46342 06189 60034 18161 57509 43936 80096 83970 58493  
30704 34020 08229 23970 33995 04910 09357 35567 84576 34754  
13099 79111 00000

89565 07787 82787 17642 17920 08286 24526 50554 43744 44380  
43297 53004 84418 17115 90011 82937 21641 69813 30478 90365

85327 26349 30528 11745 69257 88114 34598 31639 83142 13117  
54959 97606 70809 25636 13775 99249 49181 29894 05179 47354  
47750 26164 69564 14071 53225 52748 97261 20069 89042 02292  
03800 79595 84425 85827 43942 39388 12686 43034 56672 72369  
03448 22105 58329 12064 58485 77695 26071 38674 25868 60370  
38863 52762 12080 95987 68166 97451 36828 78472 35529 80079  
00000 +++++ +++++ +++++

**10861/8187/6939 kHz, 11-03, 1015/1025/1035 UTC**

07232 63705 10519 98009 83460 80131 82638 76410 03837 20634  
62149 78395 33088 49357 47291 57738 27947 64289 74666 05726  
61238 86469 09004 18736 53492 86780 20914 05746 04258 11291  
57313 59225 40320 91059 34217 37849 22987 47358 06587 34455  
81659 28232 94903 27698 65846 37357 73179 40838 32832 41108  
48076 56084 13171 64798 83825 57952 21207 14007 52639 04054  
02796 81949 15292 46775 37421 28813 61571 54265 36895 44012  
65273 04180 07832 27281 33446 48616 70066 49557 54543 73677  
48232 79588 75207 02105 78663 87197 60347 12408 98812 59143  
16197 72945 11388 88520 81060 14380 40369 23633 13417 88943  
21120 87270 32076 89969 91763 02339 88066 30104 78009 84774  
72961 01656 88639 89680 93305 67503 63807 21624 65852 56016  
43377 45027 13282 58407 47452 55603 65102 51970 86309 98749  
93405 97633 41909 45870 38182 85267 88179 64526 01870 25176  
42254 43386 17827 09232 13853 57895 22425 90063 45007 87596  
85435 51755 57280 21063 78405 70484 48722 09355 85717 88537  
07702 53955 87998 50148 35823 40111 72594 72580 97117 51525  
50769 50909 35686 27334 86344 19929 78991 47305 65435 21627  
68977 56196 62004 51661 88214 63212 78889 83284 73241 77499  
69016 92136 32316 65604 66471 30362 09734 41856 82125 23480  
63925 27583 43494 88445 51507 40121 83529 96332 34479 97547  
08018 28099 52749 50068 96279 96837 29186 74004 14866 34981  
99367 89320 48921 69882 83236 86615 80910 36211 40826 74531  
71402 98597 79264 83506 21586 82985 03231 86813 22214 40092  
26056 24822 18665 89448 83662 43418 46793 17446 18512 82527  
19284 27807 25770 75665 67169 67956 78859 46467 66217 79694  
76598 13124 02865 47628 79110 36666 59395 43796 24681 74038  
23039 91915 44775 21887 48683 99707 19371 62015 29892 32713  
39823 44433 57902 28058 71429 68944 73309 71598 32892 51203  
40103 86875 34861 84183 96762 09330 44748 30997 64089 44203  
69998 09989 14458 31577 77001 58069 32192 66967 87841 83191  
19732 50927 22063 41936 29292 66094 75641 03129 24701 05114  
54355 83427 03093 97878 03735 65824 31162 11520 02778 36992  
75645 21598 13632 04417 32740 77912 04412 79253 86122 13385  
87353 35840 48283 69439 39486 83813 64837 36336 98012 13754  
86517 31869 47584 02309 38524 66890 41656 87720 41938 71083  
25111 51711 66855 77433 50345 68638 21963 88819 03996 07889  
10218 75177 86496 00419 05330 74664 11660 05405 28736 97268  
18463 37917 31745 54293 12224 43575 12547 62159 77372 31111  
22779 93963 28971 98774 43320 77224 95214 15533 34020 61258  
48056 42986 87033 02627 24175 08946 38467 81407 00000 +++++  
+++++

**10861/8187/6939 kHz, 12-03, 1015/1025/1035 UTC**

52514 78815 88681 22424 01188 10341 83098 58425 00693 04865  
38266 34795 24154 25054 27748 95487 47082 02149 51181 30862  
57085 28270 14550 72767 98053 21081 72268 98712 59750 15511  
04516 12302 48755 62203 28265 92135 01689 37407 65445 26344  
26664 93960 16663 74962 83892 08097 13928 27324 41393 01721  
50829 46652 66734 44873 13578 19060 40746 68051 61375 49122  
04148 39083 29531 69219 73018 84241 53771 54841 84056 58278  
39183 63030 55557 93076 22214 36161 75055 79606 99185 38239  
49561 62860 19744 82083 00000

16040 93330 42165 76779 19768 97790 95812 12994 96880 44323  
37126 81865 47970 09494 91976 02959 69688 71814 84161 76480  
25849 60994 50441 52230 88753 08321 11136 76311 13674 62818  
69728 82916 30432 42913 39912 23295 84220 94268 23511 49125  
21189 61481 87722 92457 56948 74330 15109 09441 63912 28265  
24783 79996 38435 63816 88225 80635 33662 74622 88162 72618  
69051 98761 93947 72623 52479 73057 51896 98125 75893 55078  
13981 04677 70435 42488 53359 57252 31964 44451 40144 02887  
54292 84777 67587 63647 21596 41485 10113 78870 74303 52496  
87595 03714 21139 42105 99410 83095 00000 +++++ +++++

**10861/8187/6939 kHz, 13-03, 1015/1025/1035 UTC**

00000 +++++ +++++

**10861/8187/6939 kHz, 16-03, 1015/1025/1035 UTC. Wrong 100Bd speed**

82374 01902 11607 67374 41930 15790 27894 14595 64660 51139  
56011 26398 51531 83658 03879 64233 94049 67150 96820 11342  
66494 38405 20821 82777 44801 55407 32285 67961 88058 48526  
32738 97930 43523 89380 31905 54493 61121 07065 47608 63453  
28352 06436 15918 39117 61542 68126 09990 72248 14386 34989  
91041 78668 89701 14658 39884 50695 65359 52899 42467 78592  
70297 57465 27857 34237 71577 77115 82101 34165 58410 65496  
86403 24218 34094 84582 53057 52944 51798 27352 57566 25967  
55137 64383 90397 58488 09459 44070 76801 68134 34797 01138  
38128 75311 76428 53144 93097 03278 73949 89655 22436 95099  
14841 83795 45341 89698 83435 80829 81186 24166 41232 43501  
94934 54528 99496 58785 49663 12167 70089 35762 14665 38062  
05447 49283 02557 62060 63663 09133 33817 19347 59609 59362  
52215 21317 88018 37488 39545 23018 29492 48241 03128 54380  
75338 31551 34487 07383 32216 29464 62671 96380 92480 81665  
50631 33757 81202 04305 08104 88093 15781 31817 19439 17053  
39093 26408 09804 92149 12111 84911 98203 57611 76935 97692  
10760 90499 26177 39293 52674 54294 39613 95498 62322 63120  
74080 56521 95919 98810 17520 30985 16184 47980 43120 60393  
83445 51313 24497 38779 72631 82245 97846 67215 64565 97226  
82006 97874 85030 24748 92366 47330 90011 85336 09565 83780  
20575 59687 88900 17889 75808 47126 21419 51919 77272 81599  
82582 66870 23384 97360 29481 52273 57189 61562 32519 08362  
95942 15923 52504 75288 95945 94661 99091 69078 51078 10900  
31512 29015 48453 28697 87513 06134 29642 62921 51481 47515  
30907 74144 97631 56070 00863 50740 69267 30503 19033 95371  
79982 15127 63710 58073 47791 14247 02576 83090 98097 50764  
04513 61684 96458 73719 96041 08076 97057 44440 10827 00724  
17849 55993 05690 56122 78296 65628 41554 27308 60641 44889  
52779 44255 80655 77096 53304 38362 78792 56877 53053 18196  
67692 71429 83018 88702 96970 68222 52488 31064 21230 38799  
86831 85374 82231 73385 19285 03349 41164 65989 35191 63233  
21949 74669 92105 64111 51518 66672 64225 41788 07997 03118  
84571 73450 12747 42927 83360 63281 27177 70666 46005 26214  
40292 78017 39185 12028 57895 53538 78416 36955 29387 60414  
35570 14999 73100 06891 09755 06147 86111 39065 10035 23661  
49454 10722 23390 67643 64693 09922 66366 77057 82766 47007  
43863 17390 11068 33715 63481 46150 09674 08108 78875 23383  
12681 84973 60549 59398 35568 36416 17531 16883 54541 32300  
18358 09603 68777 95250 84826 64872 81527 49892 56925 41982  
60995 71009 52398 23770 66943 60322 69376 23520 53960 06566  
05511 74390 87321 08553 92051 93539 32387 65916 66300 38153  
03475 67214 30880 95548 83141 30083 73264 74548 47808 73129  
43992 90319 60678 84433 00000 +++++ +++++ +++++

**10861/8187/6939 kHz, 17-03, 1015/1025/1035 UTC**

66769 62278 40259 18311 04117 09937 43241 56957 17492 84835  
94464 79837 81249 28056 20901 04607 72614 45418 25158 86848

57267 79174 62711 00021 57848 94260 91907 79177 41305 58782  
95139 20646 86020 23425 94669 54845 14674 29486 11504 34441  
03753 00198 40779 05018 05665 95040 42089 50458 44390 85049  
00000

62998 28093 85646 66544 25364 59625 99134 99727 53117 73087  
67584 85857 94075 84021 25906 60485 06056 56777 47198 20826  
08698 32391 25877 60123 49054 25308 05035 23210 73145 49886  
52730 06701 20657 62630 16887 52244 84964 31078 13499 06285  
05684 65293 27816 44760 85922 72885 33215 86185 51433 23507  
57425 41547 93841 33760 50809 74454 65148 08446 36384 69976  
15687 99109 46259 35620 92725 65799 74200 82861 41901 52984  
98983 62688 78674 15581 58245 53581 21991 56000 77499 25377  
07332 58180 84026 27443 21360 29522 60309 74612 25320 86671  
16709 29302 59402 46093 88060 03269 45257 05363 83892 27427  
28829 86101 00000 +++++ +++++

**10861/8187/6939 kHz, 18-03, 1015/1025/1035 UTC**

29123 46671 65421 85444 97979 53161 68579 53095 87245 13051  
28296 15428 29658 38920 26984 57031 85833 97217 88652 31825  
69684 54051 01639 45427 03997 71867 95719 09491 35882 05435  
15813 78956 66774 70592 59449 08148 76667 84184 70195 86654  
47281 98621 04229 40941 13830 79517 12236 12606 00109 99814  
03841 49248 16552 48868 86729 68866 25975 79898 97675 83726  
06683 44260 67649 94647 67618 85968 88189 91624 95262 94916  
71239 21747 36949 42222 19620 10332 50296 46134 50343 46223  
73445 41955 37940 67185 95775 54395 69995 06331 33806 95806  
32078 85524 41954 38739 64253 66696 12845 36244 56368 96997  
46867 88374 74286 08750 95641 78310 34272 60110 09113 26552  
67709 27403 40938 36617 43332 85038 91865 30678 39170 33981  
95787 98581 81384 64677 78157 08682 92185 65401 41456 53925  
14021 11948 57397 31634 02225 99602 70564 80410 03301 03351  
43147 22614 61050 77225 95494 85836 17708 28773 22143 01826  
02298 29539 88030 06279 23366 47539 34569 87964 08317 12628  
50263 60583 56497 50722 85581 55837 98254 47812 16734 61109  
77132 29689 88082 50226 97393 68335 87835 80716 04075 50914  
36743 56009 87734 72290 94459 76014 31108 37028 13276 24523  
39834 81798 93895 66850 24458 54127 22959 56184 25891 08441  
96980 72052 01507 05324 62410 39356 14083 24939 26493 01420  
90748 30552 18611 45462 44150 43080 06809 03968 73003 12625  
99176 80357 84233 97902 84790 72421 03879 89535 93883 91942  
68957 38120 81944 03951 17477 73016 67438 34035 18771 22806  
77813 17172 11361 73338 83507 86482 40527 24320 24627 25381  
12763 30370 59986 31529 09326 37490 93200 66052 26044 50879  
55520 86439 31593 95038 50082 86578 61406 52091 87284 92356  
89423 89266 65953 86261 44855 11488 80004 59427 66159 99980  
55275 14557 09407 22870 46227 68164 53233 28673 47188 25564  
67554 58654 97847 27064 38249 38951 87660 88770 64973 38433  
88880 86476 74319 03217 72884 56041 15485 03778 89485 08719  
30654 55598 13928 84863 17269 99291 91237 94447 24391 51128  
32632 17839 50321 59918 43655 65269 33687 31172 88757 18424  
55167 04492 21969 02612 92050 95111 38387 62923 92819 35546  
26147 42842 63930 78268 23569 88729 85995 45365 11169 28630  
01547 36092 93218 98821 41569 28292 48548 16570 82984 34582  
55267 22501 54290 99278 19107 41044 31521 46970 60058 32383  
91739 18696 36999 34341 16220 56652 14998 17648 60543 23383  
04981 03024 33761 66366 30451 13520 53833 63958 00940 60545  
71528 13620 96892 87022 79956 48366 95662 16117 51947 92374  
93305 87401 00000 +++++ +++++

**10861/8187/6939 kHz, 19-03, 1015/1025/1035 UTC**

19312 02553 98745 92752 18550 04115 28618 28497 09571 22560  
46832 95896 60141 02955 84846 57878 88100 25482 73538 93614



88207 33444 51942 85940 87994 06270 01077 34264 31059 69747  
63814 97651 11245 60635 36721 97774 06122 87866 44805 36411  
83240 57516 35116 07176 77558 53727 50124 06193 63508 92782  
66830 71364 70130 92510 12527 04950 12703 24203 93161 59132  
39321 39248 95240 89256 15851 87651 47191 04439 97698 70646  
51150 70212 61841 94568 21088 42932 97535 18185 88223 40586  
79170 10675 59663 79728 69674 62440 41193 33216 27932 15931  
60176 88091 00000

09047 84671 25502 77098 66845 72204 96008 94514 81778 03218  
18266 69010 06538 69567 68526 41687 20825 15724 73997 47869  
72720 14397 34733 45322 13522 09454 81953 24593 43221 12052  
02477 49932 08809 60937 83955 04197 22609 82839 60592 36219  
92812 13897 64044 34036 83405 68066 09178 72441 45685 63428  
69380 08298 88539 42349 21113 22028 79688 46429 62384 28745  
95064 32164 34837 07446 58532 38281 04143 21707 39118 40655  
78371 30321 97958 55778 69053 11320 02131 78685 24590 47802  
47576 66305 90724 49023 58286 02146 77746 89087 00000 +++++  
+++++ +++++

**10861/8187/6939 kHz, 20-03, 1015/1025/1035 UTC**

00000 +++++ +++++

**10861/8187/6939 kHz, 23-03, 1015/1025/1035 UTC**

59267 52189 16693 08720 91638 21241 74778 47574 49418 34625  
98805 26579 05489 53705 55329 52217 35792 50845 44430 91176  
80190 32454 08669 83870 53808 14464 04245 68990 13556 73691  
51554 05035 09519 23521 07326 99744 75887 87327 25530 83390  
41137 68106 99238 86841 62126 37722 00639 10358 11811 94224  
61367 94041 75254 60676 60378 25894 33640 23910 11504 48393  
40939 36675 67918 49556 22958 31596 85683 49409 53431 20382  
13559 17800 86850 76732 01273 84501 52719 26374 43439 27536  
40928 92652 01301 50658 32920 71142 69500 85936 58353 31688  
80049 82373 81932 71329 60699 66488 50111 66539 89888 85825  
52335 98222 15464 71295 76534 47893 29358 79310 63533 88495  
15408 99638 90075 18284 12510 39919 35157 11204 60291 22776  
09332 82218 19490 56465 51711 91019 84229 64998 24315 32539  
28374 88669 58475 87732 53156 90937 32981 33040 28257 32586  
88647 31986 43535 99114 08999 57338 13585 92281 21747 17274  
02317 21750 00773 83986 59742 57768 73260 48175 88153 30817  
61720 47843 79889 89179 15541 44856 93860 50345 11794 47690  
63046 07205 29956 03806 50122 74974 30251 10096 93429 89763  
90287 14829 10459 94761 79684 09538 51040 74939 77378 34289  
17433 26237 61288 44765 93493 70155 25033 14602 50113 49701  
01387 71419 19113 67609 97161 89976 52785 52791 69203 90899  
11262 65948 96184 18407 44909 80275 25890 95480 63926 98201  
02677 79913 12336 90111 04795 69678 88559 65959 46265 31039  
79763 15753 22988 47869 02160 79801 07782 15585 64450 34703  
24036 28156 96608 05979 52659 31610 11175 43317 52023 42487  
89259 19341 95576 54667 08448 37859 56826 83019 54772 62518  
96364 17299 85972 01808 30639 84740 38197 11349 87146 44779  
93357 99406 75742 64333 49312 46562 30743 47101 60071 75476  
03531 15291 38209 31703 10317 67228 36663 61460 64784 59289  
52130 97317 50270 85577 17216 87735 11193 53801 73552 31379  
68398 80767 43059 02166 88128 55961 39526 75966 59283 46607  
87731 94905 58671 42688 42256 30198 08943 65338 23192 29456  
58879 87049 10942 59409 40733 37132 67278 79969 84313 90875  
74864 10582 92490 65825 12420 74801 07814 73633 07717 34023  
24935 00916 35597 46319 28518 17539 53194 11298 61318 35803  
89554 86953 52137 68923 31831 89405 58317 62282 75259 11506  
02481 95856 29082 21213 08191 81286 95616 25701 64229 02007  
64662 12128 72171 69877 90422 00993 56953 96762 43132 73038  
45114 04487 52583 55618 40395 21600 85732 79482 51400 40410

25572 41902 50985 32695 43470 37086 72079 47550 82139 39814  
69617 39798 91455 53236 03273 02407 84277 56767 20676 01346  
04489 15015 45817 36320 24426 90415 00000 +++++ +++++ +++++

**10861/8187/6939 kHz, 24-03, 1015/1025/1035 UTC**

86502 72337 22725 67478 14035 79343 86416 38919 84479 39467  
35017 64306 35760 79596 64369 04872 59069 55872 31022 97627  
85828 32215 63646 06214 10682 39041 75332 76142 36456 41835  
25210 36622 52040 74268 02810 16151 79104 15567 33631 64071  
48608 16796 29327 95262 93032 05765 30960 00172 65268 25223  
18762 87358 20105 84053 86837 50752 19254 26142 06240 78800  
45844 46599 24868 47699 39328 10047 77620 65894 86734 50632  
05233 62039 31212 58475 05250 33597 83781 91077 00000

24110 46544 15330 91965 11863 85767 06617 88613 17927 39110  
32866 39699 83383 70737 83721 12556 15480 44796 94446 31138  
47150 66743 71311 96695 09122 87665 31919 83149 75569 76260  
83905 24369 69235 88200 90468 35527 36957 87534 96135 35727  
31548 99826 11236 64083 60959 01733 78490 06451 90672 76679  
70179 74983 10239 91343 89304 07713 99925 72633 73197 80332  
58399 89822 23005 47382 77373 71574 07491 55007 74170 12492  
14598 92492 18137 48923 49186 74748 11833 08688 00417 72947  
12953 64408 27194 35490 07902 45159 35111 66486 72971 86088  
43337 53951 84051 20720 64888 64890 60814 45627 48709 49468  
56303 12142 57008 21447 27879 24817 76293 07082 50445 51305  
85522 79659 57893 73352 29834 92115 00000 +++++

**10861/8187/6939 kHz, 25-03, 1015/1025/1035 UTC**

08611 51758 56381 54327 95182 64995 16156 79648 46511 07649  
71501 26827 34948 14016 31572 04987 97883 04910 44751 52600  
85470 95030 79234 59162 62739 72301 63482 86182 08300 60118  
41213 60925 76811 98451 20644 41346 17408 04723 22654 75659  
65268 00414 57557 04963 48524 14332 85181 82379 77674 98470  
37935 07125 09724 17410 11543 96970 04201 97186 53157 47509  
13265 44575 01509 51683 73085 72715 58798 77997 88669 94028  
99019 30871 29345 66353 42390 41542 77063 03239 50586 62987  
94736 84343 22459 67281 06763 26863 94938 68826 08967 03932  
78788 21910 50106 20936 83920 66011 52155 85671 13946 17296  
61543 33293 34644 29743 48541 91976 46058 74343 96971 00254  
12882 09788 51449 11929 32834 43115 14320 49548 47719 03721  
09498 92328 26836 79197 55384 09501 77451 86418 14059 75002  
62003 76317 08919 24455 26733 95799 27973 40359 71429 55210  
54964 76458 14976 74819 95506 57191 36382 08736 90438 13188  
95995 69709 33563 38731 66575 03247 35973 82131 28914 84473  
04146 04954 11699 36205 23995 71018 80303 91624 68067 51137  
04185 50049 68068 54497 57588 99181 19913 22659 33235 02315  
13476 47067 73691 73909 04247 96057 50094 91992 69055 62255  
42934 20810 13076 66334 04573 42158 20286 78050 08184 18868  
64564 40507 12818 38829 23628 08578 99251 13040 62986 37419  
56342 26085 82101 82032 22543 62497 39944 93787 12293 57437  
02130 24859 81952 45121 76825 76513 14978 03445 31618 52177  
31018 18238 08516 01233 48635 15579 79295 64467 56312 35619  
08358 57125 71461 46343 15298 50495 92097 20718 54365 37964  
70883 25642 53006 96492 66220 96164 76679 79424 50079 93390  
12128 01592 77259 69508 86286 02638 45755 88392 63037 99498  
02928 75207 84969 63991 77165 93449 52359 86425 39717 72873  
56530 11193 26390 36730 09808 55270 73800 01762 39238 45564  
49856 49387 36267 36047 83175 91515 79553 90605 21108 79427  
73131 42565 71066 29157 67077 66794 04838 61824 52892 25358  
30574 82330 50772 72639 62151 44889 30968 30865 40569 78792  
36413 71990 87097 72885 98797 66858 92844 42156 65306 87588  
74439 24899 78170 74123 50513 83881 74249 00873 18675 09951  
96815 04392 37655 51520 36737 58035 44316 18369 45237 04517

60217 33204 85426 82322 67408 29403 14798 06904 58161 18392  
15849 92595 88303 75090 17059 26193 88862 14857 71365 28129  
15688 60377 84362 62185 41758 21932 09385 79671 21848 39482  
51672 09024 84244 60002 48818 26744 29203 48515 19653 70625  
38828 56244 98793 81200 28071 94343 99010 82354 91521 86620  
68618 37028 25696 93403 00000 +++++ +++++ +++++

**10861/8187/6939 kHz, 26-03, 1015/1025/1035 UTC**

76210 41142 61538 02776 33103 69725 24169 10100 18607 31794  
57943 49547 35814 53140 18460 07294 31502 22114 94807 40468  
24786 76651 63459 40403 92124 73044 50868 39341 69607 41133  
28188 77786 58468 55617 86557 74692 44755 78156 66393 67664  
69101 49976 39121 15366 07527 39633 64785 79332 49219 75652  
73982 27352 82217 18716 47533 25626 22950 53085 92364 11879  
50550 01950 37004 66624 31905 96396 95153 24746 48354 52667  
70757 94/15 59990 37417 03018 76907 68497 25637 74785 00310  
64457 94081 00000

81213 53043 15285 91792 74959 89669 61244 52413 15669 98727  
21480 65318 23913 83825 92816 83565 84578 42418 02643 19653  
12974 90093 99087 40175 46820 14251 88170 95322 12547 99366  
28865 37954 39355 91023 22012 11887 19460 90900 54008 14130  
37969 99906 81230 60715 20828 51645 66109 10844 74264 03403  
00806 29008 14177 76836 79422 89798 08903 65562 04688 55070  
83801 51824 40045 78156 61095 99435 43101 14833 33391 15167  
41346 45689 94347 95792 36103 39632 74891 02960 45643 13175  
58450 33080 23384 65227 73622 74426 12139 92048 87723 68630  
20325 12076 49649 18752 31094 55296 55502 11128 80300 96857  
35395 43170 64260 39609 84889 74314 63234 75249 89508 42297  
91561 95111 00000 +++++

**10861/8187/6939 kHz, 27-03, 1015/1025/1035 UTC**

00000 +++++ +++++

**10861/8187/6939 kHz, 30-03, 1015/1025/1035 UTC**

51647 92533 95130 06850 23808 48778 41334 01745 12497 37401  
80936 35237 22491 25716 42675 86828 05381 17072 45216 34491  
49242 17932 26322 69258 95350 40214 48289 91165 61636 37317  
71845 47480 77568 97284 15689 99144 60148 41521 43858 26391  
85703 02527 48126 09447 37177 79066 17599 45272 31582 92213  
12703 86281 57323 90721 85767 11962 76079 79136 15366 69351  
68906 67111 46615 43290 31280 63346 54624 42408 46743 62590  
73272 11759 93862 99152 56506 08060 66167 65355 64343 98466  
09761 18359 90772 68819 08306 23814 75735 52294 70051 09757  
68377 14414 96601 29203 33751 55330 38110 54869 20177 15340  
64587 54456 29418 94553 08007 19942 56892 22666 54906 49316  
94077 39759 94153 04187 10322 74084 49588 91709 56223 27744  
52204 44271 55796 06226 31574 95357 79580 52728 31202 75062  
15899 73201 77486 73647 82449 63044 56981 46620 45416 71416  
81653 59746 38286 64060 46808 97438 97557 70621 11384 82970  
57540 27360 55289 83935 71411 51218 93489 01403 50740 06175  
51510 66199 40655 47814 32059 90758 72832 57064 27443 49976  
63521 99025 57481 89503 48761 67841 37586 84918 74003 03534  
06717 00221 80308 91755 69870 19071 54319 82388 34826 47228  
34182 87923 47802 09615 88622 47567 57737 90445 11346 68005  
63863 89861 97960 76770 26273 95509 97609 49136 44161 92494  
56490 94488 31425 60148 95464 13107 44325 29059 88933 59294  
40873 96786 37168 71790 76656 25707 49291 57407 66763 71425  
79081 38825 68524 15189 80805 02492 64727 98749 77252 07544  
52017 85094 57166 41716 64158 93501 44255 35151 84841 82344  
04977 68055 29736 78093 87275 33153 02465 73937 07464 38846  
54194 46479 27442 64043 01521 63935 89432 00590 82351 84268  
00420 44223 54455 66710 83488 20010 66379 45093 38241 53187

55421 36436 77487 21356 52328 83226 32390 48954 97433 52828  
43253 29958 97898 42452 78145 89740 80761 63138 46538 22029  
21469 01176 00158 61895 52583 80396 38228 80723 82362 73796  
59293 14081 77878 37901 26813 58441 92378 68325 40715 97694  
41578 99963 32089 45378 58557 00247 23219 13561 81966 28900  
20125 44336 57212 62641 29822 64847 55327 08270 19470 51775  
39196 52550 59598 16255 31839 22374 18616 45118 66427 53593  
00762 59443 22729 91993 44710 76306 79664 74834 25004 84710  
38668 66382 23512 71601 97529 45902 63083 58923 79420 71508  
20608 37645 46778 68353 61653 09698 54742 14549 63870 73759  
23828 23294 21357 15826 36528 44628 47168 90503 87526 35243  
16156 03960 42211 69813 15330 34476 83179 92251 93921 51535  
49413 30356 30352 19375 97823 22268 58268 95960 41840 28183  
18862 96411 00000 +++++

**10861/8187/6939 kHz, 31-03, 1015/1025/1035 UTC**

12011 48528 63786 32663 11094 54073 51054 11154 36468 56403  
94196 55328 54637 08616 36610 46694 70757 99650 13781 91665  
36809 63897 45104 99398 34477 64351 93371 97989 49927 35225  
21628 37500 82658 94989 02076 53229 55630 65745 56715 87684  
18847 59887 34420 94670 63582 19995 54112 73957 89442 22876  
68750 09944 91439 83710 29802 12765 59283 21233 56884 85274  
06057 69881 42280 64353 68482 49859 45000 09965 45951 31050  
54077 40397 70513 51707 25796 37145 25012 77875 24530 67854  
51546 14464 21881 00763 17461 03929 33807 09093 31033 73477  
00426 97091 00000

19211 38097 92510 70745 49125 83916 31649 60695 90394 48941  
55518 00638 27352 91330 12413 94508 67046 58223 72469 40245  
10383 85168 43590 03103 87413 16361 91348 08980 92740 25361  
61353 49951 81937 40990 27480 19204 14955 08097 14427 17547  
57432 37862 68019 98693 75857 27353 71708 45498 87514 52994  
32698 94344 51146 67660 86135 49857 09286 56064 90813 57138  
18181 28134 14803 23709 26257 55065 34473 08348 87045 77742  
95325 19008 17533 42199 08083 87004 37848 41832 78463 09661  
53240 71025 94093 78601 64277 19902 16982 35867 16207 64863  
54993 25063 23408 34626 10773 29702 29890 56433 31544 15949  
91751 12126 08220 21950 92559 58764 97278 98107 00000 +++++

**F02 – Russian domestic net**

14983 kHz, 03-03, 0749 UTC. Test  
14983 kHz, 03-03, 0800 UTC  
14983 kHz, 10-03, 0741 UTC. Test  
14983 kHz, 10-03, 0800 UTC  
9300 kHz, 16-03, 1317 UTC  
14983 kHz, 17-03, 0817 UTC. Test  
14983 kHz, 17-03, 0830 UTC  
14983 kHz, 24-03, 0800 UTC  
13882 kHz, 24-03, 0812 UTC  
13809 kHz, 24-03, 0842 UTC  
14690 kHz, 24-03, 1038 UTC  
14690 kHz, 24-03, 1047 UTC  
13391 kHz, 25-03, 0810 UTC  
12155 kHz, 25-03, 0830 UTC  
13391 kHz, 25-03, 0930 UTC  
20875 kHz, 25-03, 0948 UTC  
20875 kHz, 25-03, 1000 UTC  
17479 kHz, 25-03, 1010 UTC  
17463 kHz, 25-03, 1024 UTC  
16333 kHz, 25-03, 1230 UTC  
12165 kHz, 25-03, 1250 UTC  
15614 kHz, 25-03, 1440 UTC

13444 kHz, 25-03, 1452 UTC  
13444 kHz, 25-03, 1500 UTC  
13572 kHz, 25-03, 1637 UTC  
12077 kHz, 25-03, 1637 UTC  
12077 kHz, 25-03, 1651 UTC  
14983 kHz, 31-03, 0800 UTC  
15843 kHz, 31-03, 1024 UTC  
15843 kHz, 31-03, 1036 UTC  
17467 kHz, 31-03, 1008 UTC  
17467 kHz, 31-03, 1023 UTC  
12219 kHz, 31-03, 1036 UTC  
12219 kHz, 31-03, 1045 UTC

## F06

**9300 kHz, 18-03, 0831 UTC** Active 6m30s transmission (waterfall only)

Link 00000

**9481/7362/5783 kHz, 28-02, 1700/1710/1720 UTC**  
**13547/11514/9426 kHz, 01-03, 0830/0840/0850 UTC**

11100 00000 85271 27038 01769  
48926 55186 44535 83875 80407 71431 39369 23269 89334 05053  
98415 03176 62123 84793 23658 99886 87144 62051 94821 00680  
19024 76136 14390 22636 41474 12200 15995 48348 14610 81520  
84629 20717 17659 78852 62105 64016 23033 96505 36210 23409  
62678 99848 36989 40114 72649 93931 88596 04406 26843 35906  
90145 53623 95827 72936 24006 07403 91714 10278 14974 57288  
84997 39231 88769 52934 04296 79640 03271 52076 54960 16626  
50956 26455 17450 36252 55966 40889 11440 89799 14235 47679  
36588 41345 50123 63527 25892 78325 87995 21169 72595 89776  
62174 12896 16553 41942 13711 68163 01013 05926 47414 32466  
35747 17083 47560 39670 27464 70843 75745 94990 63443 84641  
99292 10801 59336 80649 23669 62460 07058 69000 27343 56353  
83712 36183 22523 27316 07507 68303 90203 07652 51548 63898  
62980 34911 51515 15980 54038 90631 68099 68014 55787 87220  
90170 73513 56549 45172 89607 13915 48757 27802 63724 54472  
27095 25688 26227 42795 00013 08009 32650 79777 63060 82960  
51201 17559 07476 34448 14948 64230 62467 27226 16297 99969  
94613 97693 29695 34283 38174 00000

**11567/9425/5913 kHz, 07-03, 1700/1710/1720 UTC**  
**13547/11514/9426 kHz, 01-03, 0830/0840/0850 UTC**

11100 00000 34852 06039 02439  
88686 71300 73678 82510 88483 37760 58087 38856 10355 91104  
61062 16533 20471 88920 79202 16880 92198 06419 05427 63834  
16984 34594 38533 45508 80957 07550 05745 59072 96572 68208  
43435 21871 95133 55005 74559 07296 57268 20843 43521 87195  
13384 90246 63471 95661 19497 40812 21687 40539 47145 66734  
46637 26643 07774 37125 18324 01229 48868 20443 09197 52304  
14253 29731 29071 26958 04485 68332 72477 61896 98282 80795  
91908 43372 20929 38625 45361 38698 70582 15601 91649 66527  
38439 32326 31901 98094 83676 74697 20681 06601 49119 16000  
95190 06923 28571 97293 95957 52854 21737 45791 77480 84046  
37685 35913 32242 39844 32781 22702 76543 82202 94028 02290  
71596 94879 03765 79107 78294 51079 46634 44514 69129 66739  
44786 96540 45656 81656 32236 55436 34982 35626 04323 54703  
63676 31790 03199 12309 32575 04382 25295 11752 40894 33048  
61698 47691 33098 70946 07368 15809 66959 78796 00150 51594  
26252 82071 75503 47746 26500 93534 47891 04878 87243 68278  
54769 95203 69235 83483 24108 43905 00025 60068 51390 57862  
36348 68419 97015 56432 36786 85388 40055 83969 43098 94758

49289 08766 93698 48338 57470 38112 17690 29898 49743 04153  
82906 89128 02166 00238 96393 37797 31260 72437 80770 25302  
40545 95933 74906 35814 74969 90952 32356 74180 19198 57942  
15975 32793 00682 36671 12179 56589 83448 18942 13258 48401  
63561 69606 41197 81808 02163 35566 11446 13712 57064 47455  
60053 13789 98802 43678 82631 53041 22110 71502 58564 18609  
88729 39241 00000

**11567/9425/5913 kHz, 14-03, 1700/1710/1720 UTC**  
**13547/11514/9426 kHz, 15-03, 0830/0840/0850 UTC**

11100 00000 64513 13040 01799  
68509 75906 43965 44242 93612 45747 84600 53705 17960 80671  
65309 88345 50067 52830 69659 55141 45508 18482 45925 05303  
84518 74783 34740 91291 50875 22912 28493 82541 04226 98481  
67144 63305 63064 55180 00160 61062 40547 12563 69242 78935  
00316 03951 91555 30550 24534 85358 48121 00769 11321 91393  
07076 80745 43759 49073 36487 50729 97681 85481 86398 09064  
80406 90215 44809 70813 17624 18553 97258 84456 30608 46277  
44719 40083 70955 12108 59473 67533 05026 08659 83664 47912  
65279 07871 00215 86926 10694 31857 30797 23473 63453 05091  
40534 71911 14096 48887 54132 21481 12301 04098 13131 41268  
85509 92969 28941 64188 52572 56105 11384 48405 24588 25452  
77398 39626 10156 19268 69616 82720 67195 69995 39485 56090  
68540 20985 74627 27225 73494 53000 75132 52894 22523 26452  
08458 72403 97282 50286 97625 67352 13171 13472 22420 86336  
36577 40025 38247 58026 44034 53503 42367 41064 65449 61915  
42176 84215 78605 98970 05219 95207 47115 82618 95639 41702  
19030 76813 26733 32830 28268 67432 84307 54738 66069 88295  
00531 58561 14662 58222 82946 24293 60309 40177 00000

**11567/9425/5913 kHz, 21-03, 1700/1710/1720 UTC**  
**13547/11514/9426 kHz, 22-03, 0830/0840/0850 UTC**

11100 00000 13584 20041 01939  
28727 02641 51099 98420 38028 65334 44634 62022 13706 22216  
72199 69059 62026 64947 68741 52437 13409 50089 14411 74606  
63580 48637 00966 53316 71079 77282 06861 30818 72046 16109  
04471 03720 98230 42404 47873 55673 09167 35260 14643 60072  
74443 30677 00083 44969 67004 31830 87333 37374 53429 04210  
41805 29150 92119 10302 03353 31661 75331 63519 74653 11396  
76000 06048 29207 23717 85279 40308 87403 86959 51744 68726  
34096 64034 58192 21482 76114 43750 96982 76936 63156 39023  
29838 04428 20494 44170 43068 84110 66944 18475 34133 83535  
16515 88202 90496 95662 87190 84272 46699 67972 65282 57745  
30591 77392 98782 40349 34669 30704 18154 42196 73433 95127  
08011 03904 12740 88770 78102 45291 82038 85625 07062 77855  
05478 14809 57337 73190 12786 58721 84758 04562 15874 79827  
91166 03811 62103 30727 93551 00774 00148 27226 08122 37415  
19391 89075 72765 73849 48801 78073 56317 28448 26206 88224  
28087 19216 73925 67629 86071 98620 41686 76804 67307 99075  
02754 13117 88774 31246 14236 56013 92318 02375 77468 12746  
92002 46826 59453 69266 47349 86007 61252 75988 10888 59888  
44308 23097 23464 97278 50596 85100 55735 17070 77574 39303  
19299 41191 00000

**11567/9425/5913 kHz, 28-03, 1700/1710/1720 UTC**  
**13547/11514/9426 kHz, 29-03, 0830/0840/0850 UTC**

11100 00000 34685 27042 02139  
25111 50798 46411 64299 97503 30621 98020 00749 51349 55773  
93159 72045 29496 73093 03975 03742 58804 87352 81746 64331  
17174 40186 70267 25869 05372 12939 38836 22721 09572 83131  
83332 50664 65555 89223 68785 73488 60516 83367 11886 29318  
33393 76835 26883 53824 59680 07812 83289 62515 31643 86237  
48845 59302 69886 95386 16173 63519 27207 54876 36557 72585

70664 74788 09299 02508 52816 55583 00064 73390 08052 13515  
86679 32162 34957 36215 55810 29694 50653 98138 98944 94498  
28050 90563 81140 70199 51940 45827 80960 08959 54883 60492  
25034 38044 18810 47119 65691 41740 53289 69345 75097 25761  
86388 39948 54324 56388 29074 86587 80810 91489 99083 14911  
42629 45627 15202 23708 33016 56436 97893 51800 03583 44450  
37216 61366 99663 83587 13958 87370 26229 24452 84928 07794  
17800 37668 68363 14362 10803 69415 90342 88436 41810 26355  
78200 11779 20091 32148 11835 66859 47915 22735 68866 06409  
87054 72570 24585 96890 94907 69016 92617 65595 78693 77047  
17256 06024 41147 61492 53380 21267 16163 58975 94921 10062  
17804 16751 37798 25204 51142 40622 88250 59019 58346 19132  
52542 35566 98454 16207 68930 14270 84288 49446 67865 34665  
24926 96241 71350 56942 47179 94926 67401 77985 94511 33113  
20534 27574 26843 40446 04229 74462 69658 27921 66311 97002  
85878 42211 00000

**9074/7648/5911 kHz, 02-03/03-03, 0800/0810/0820 UTC**

11100 00000 75821 27033 00799  
61884 51801 01667 14525 32145 90234 72354 74921 40695 24707  
97755 39296 10244 15025 83225 41034 15799 51641 33057 36744  
91063 31359 47748 86305 97418 46022 86196 57620 16448 88880  
16283 73268 51935 08316 02264 41232 52268 63627 02425 36901  
89193 62548 75423 28529 53856 85187 18753 63333 56057 24089  
87787 56436 37682 95090 68817 49810 36211 98667 04533 33446  
59284 36459 95383 45902 56217 12650 25261 96447 97449 74908  
84924 75964 97819 74561 91625 48817 44643 33077 00000

**9074/7648/5911 kHz, 09-03/10-03, 0800/0810/0820 UTC**

11100 00000 21964 06034 01799  
01064 51324 75032 48195 75135 80546 11446 61760 00351 93073  
03893 60854 19072 97762 56892 44215 80734 95484 18227 42927  
76561 96425 84214 40496 08742 09755 66785 02031 05030 60340  
95826 79671 14678 12206 55207 86488 46673 03416 75937 56024  
36176 22065 34892 29662 50139 78073 32541 39018 68005 50479  
48116 75540 98456 14888 95659 64501 18125 80800 29393 85573  
43216 93486 71833 07173 69987 80097 63101 26761 44998 44701  
54866 34291 51095 41936 97343 40985 20052 83962 92814 40635  
07805 60401 14068 95599 93228 75952 11234 64714 86380 35371  
55430 15263 57157 30500 92663 86233 20300 09037 06419 95025  
37678 29730 12380 04800 23808 33681 33716 94665 65517 86460  
30376 99883 91722 70698 80816 14276 54223 33856 39615 72031  
05489 20868 19395 51097 84340 46319 70513 65328 45485 85879  
56924 37608 93840 91644 51689 71102 09574 61107 00540 60856  
74804 14415 26952 12895 37909 59628 77159 63049 76351 50647  
28545 12662 43993 67501 09851 23386 13815 73696 06638 38242  
51977 30290 50445 21146 84176 71401 15067 32065 40217 70831  
68407 80023 87745 54481 53330 21112 91080 34177 00000

**9074/7648/5911 kHz, 16-03/17-03, 0800/0810/0820 UTC**

11100 00000 67951 16035 01619  
84186 81485 45119 02835 83298 40876 09181 98421 36379 75645  
98134 60035 35202 56267 97332 54349 87730 70470 60044 95821  
81848 10683 88425 70317 97248 02202 18116 76803 07649 83018  
61121 60544 40523 71248 86697 36245 86547 81085 44897 24560  
75936 73241 62492 50436 63858 50784 65938 76693 92128 36334  
11082 71306 19349 91537 24290 31816 36704 64764 84698 15295  
11577 77969 02255 47336 26195 88650 71251 08465 03476 87836  
04040 21440 37271 20054 74596 87871 69191 36204 26655 47583  
79201 15280 26062 59179 82169 15880 62066 25232 47564 43432  
27221 10533 84485 44090 30587 26858 59209 61217 23918 82666  
37440 15412 45531 21179 68466 94002 11535 95277 53386 60952  
09110 52652 64611 23116 71525 29643 08821 13776 39582 77213

50569 79404 39176 67483 38716 80587 29650 54273 02883 43039  
02641 86083 12110 19660 36107 94956 12919 49565 33208 09656  
88940 25016 00743 66595 09331 02212 46824 16963 58129 16854  
02481 53471 61770 90443 96869 05179 56921 38230 40789 35159  
00000

**9074/7648/5911 kHz, 23-03/24-03, 0800/0810/0820 UTC**

11100 00000 67951 20036 02179  
78727 05343 57126 61284 91702 34036 32495 61600 30466 12901  
47648 19554 21287 22953 31087 69707 72304 56537 77703 27417  
39766 67217 92012 73736 96298 29928 82657 96672 80934 09822  
00361 49722 35550 63229 36531 13636 57426 19206 24698 72337  
22605 15069 11961 38945 59736 84374 92656 92824 79101 20790  
21408 13616 86496 66259 47766 23173 36671 96944 39618 71346  
05999 05341 87544 26552 89083 02033 07337 57068 48967 85511  
82829 13986 75647 53497 16267 51759 32581 54199 78365 47289  
95859 00963 75279 03489 15752 98725 74642 48242 55299 55732  
57879 64728 85642 78933 90977 14020 42781 76525 30906 35906  
75442 16045 09856 38878 38752 11474 64508 15209 13393 37784  
02510 42074 54939 96359 23342 54638 03057 79740 35763 02055  
05248 09112 39039 22316 34844 42991 60110 96880 07912 80544  
63918 71035 28786 07963 79055 50906 18890 61351 05941 13073  
08557 04552 99696 87713 96515 45349 44926 01234 06748 38491  
64564 89288 97394 48965 30011 16165 01394 73965 64705 61448  
03555 46985 58361 59904 83738 72482 34020 05529 80842 64542  
35132 55688 57268 87985 24845 96305 68572 25358 14679 54004  
67976 18225 64793 66179 00427 56237 23018 44898 65894 12372  
94839 95602 56601 47810 61538 76525 97857 34885 88652 09763  
47205 71522 91963 79959 31537 85633 53186 81508 26910 52879  
02559 00243 10705 76256 10510 36215 00000

**9074/7648/5911 kHz, 30-03/31-03, 0800/0810/0820 UTC**

11100 00000 94876 27037 01939  
95530 93841 25557 50680 62780 49373 06176 01312 17202 45678  
98052 59234 33376 28782 71911 56062 34384 14165 80515 07448  
32646 09703 67138 24162 29062 30122 31543 10769 50135 01379  
45682 12835 27782 78431 36276 98615 51492 24824 76489 86145  
47551 27522 53861 51683 64992 45445 06710 80432 72983 15120  
46162 45496 99315 61907 06035 25983 64702 90232 87717 00214  
92564 51251 92279 74966 98985 11399 56956 36686 92539 70258  
38225 35614 38664 01175 08654 38757 68267 13071 59697 12646  
35272 56879 27647 21818 52764 25057 84907 53954 62444 17586  
63793 07618 17069 72929 05036 03529 80565 87362 48180 05310  
75512 71113 06070 60640 32667 14769 90590 98762 22239 64360  
81887 45269 71578 28592 58209 40113 98984 66618 28597 69782  
18320 29843 35586 49568 94096 56147 20118 16869 51758 40001  
65845 21466 72808 26889 65019 23713 29501 05498 73147 36572  
38762 96080 44607 72428 40044 58466 66402 80641 26784 68123  
32259 86737 86173 33733 24228 69219 26906 54701 94008 34897  
99611 42055 61158 78697 39640 51147 70384 38883 86914 99619  
75109 83617 62501 69058 39493 89817 06625 13777 76091 00227  
07781 25165 61358 69649 77663 25042 96160 36283 51570 86450  
03502 37191 00000

Link 10053

**20156/17531/13476 kHz, 01-03, 1500/1520/1540 UTC**

11166 10053 87524 01001 00049 00000 00000 00000 00000

**20156/17531/13476 kHz, 08-03, 1500/1520/1540 UTC**

11166 10053 73195 08001 00049 00000 00000 00000 00000

**20156/17531/13476 kHz, 15-03, 1500/1520/1540 UTC**



11166 10053 25843 15001 00049 00000 00000 00000 00000

20156/17531/13476 kHz, 22-03, 1500/1520/1540 UTC

Null message. Too weak to copy

20156/17531/13476 kHz, 29-03, 1500/1520/1540 UTC

11166 10053 13579 29001 00049 00000 00000 00000 00000

17455/12211/10173 kHz, 03-03, 1650/1700/1710 UTC

11166 10053 15782 03001 00049 00000 00000 00000 00000

17455/12211/10173 kHz, 10-03, 1650/1700/1710 UTC

11166 10053 53284 10001 00049 00000 00000 00000 00000

17455/12211/10173 kHz, 17-03, 1650/1700/1710 UTC

11166 10053 25813 17078 00049 00000 00000 00000 00000

17455/12211/10173 kHz, 24-03, 1650/1700/1710 UTC

11166 10053 82357 24001 00049 00000 00000 00000 00000

17455/12211/10173 kHz, 31-03, 1650/1700/1710 UTC

11166 10053 74152 31001 00049 00000 00000 00000 00000

Link 60070

10145/9055/7581 kHz, 03-03/10-03/17-03/24-03/31-03, 0030/0040/0050 UTC

10734/12165/13529 kHz, 13-03/20-03/27-03, 0500/0510/0520 UTC

11166 60070 98756 23078 01519  
90061 26866 51892 39620 30783 09687 87380 49932 31312 11608  
15382 77983 14328 42889 37880 96936 79972 57651 07343 47498  
98175 45440 95376 21109 65252 07387 00422 61597 16814 97558  
04592 90457 38944 37083 69453 89629 03360 14806 99536 61452  
32712 33292 05936 92050 87564 47190 86571 15023 83975 80908  
46938 52620 21986 09972 96674 69752 06355 07503 05189 11111  
75549 47427 43008 81613 07028 92990 73510 56386 80117 69760  
23496 51159 69043 06819 02009 32432 40602 00818 90391 57364  
89402 65045 82832 63203 44783 40084 79694 50870 56671 01433  
81744 55879 90163 43059 06626 00225 18182 10516 13015 18923  
93398 31175 36965 51355 83075 30297 36083 89228 34073 74547  
36879 92367 49379 14891 26434 63045 57624 47047 33441 74366  
70704 34981 97620 82237 98120 82614 22430 72583 07260 35321  
07567 80341 58647 93789 74617 03561 44411 00847 63893 74830  
10360 02420 90151 42908 98163 46320 08095 85859 25999 78149  
00000

Link 70202

10671/8093/6879 kHz, 02-03, 0700/0715/0730 UTC

File 44476 (binary contents)

11428/8026/6884 kHz, 02-03, 1200/1215/1230 UTC

File 44476 (binary contents)

10671/8093/6879 kHz, 03-03, 0700/0710/0720 UTC

11428/8026/6884 kHz, 03-03, 1200/1210/1220 UTC

11166 70202 62147 02077 01879  
81775 57661 56255 80212 55859 42890 94634 24220 91018 67263  
24132 33591 65960 75658 00847 22399 93888 23331 22222 58692  
94228 78275 57602 11052 94131 72516 23428 18283 45707 32003  
51483 24445 69911 39820 23661 46399 63039 12371 71662 66063  
26742 93245 65075 64560 07529 94451 36274 40450 56668 39691  
15566 79227 46443 89382 75032 66286 03692 52101 04506 60514  
46566 12141 68096 70734 35455 27867 14742 02152 74004 80566  
41186 65019 21170 78469 30839 62693 00244 45634 16955 01266  
15794 50384 43565 87979 14449 52981 22600 10584 50464 77225

10640 14850 42022 35673 53734 22406 29176 63145 73724 56100  
69408 38235 94503 65069 31711 97482 31663 66696 75147 71920  
93949 47658 22818 00663 69976 91234 67178 01238 98631 23084  
67641 01343 46604 92652 26399 61718 41492 32424 53405 44814  
33896 62187 56464 08949 86972 30507 17338 32646 16852 10593  
39844 98833 32383 92748 80851 93589 47621 40593 00129 99129  
65517 03237 89976 85720 56235 00600 70582 32209 78523 24070  
62037 29843 17608 19669 68948 49092 38014 45940 38584 74133  
74773 23714 78501 34713 11442 19972 44571 90041 18379 32965  
35357 44448 49711 70804 53784 77185 00000

11166 70202 61247 02078 02139  
78667 60628 59156 37710 96614 29556 50035 74795 52811 50991  
92584 29918 67942 62420 19512 68057 49109 85356 43442 52612  
89649 43210 39996 29526 33517 01906 44630 80259 83885 31692  
55441 04547 60694 13582 59109 18878 36794 38859 22182 81636  
07402 75084 14863 80840 72537 97050 59525 45411 37147 06108  
21105 65925 58572 86313 81582 35766 96087 70833 65739 48627  
42167 17027 10359 13305 40177 13676 94079 71706 18184 68763  
70083 31022 93562 51271 68797 45997 28093 85407 62803 12231  
38234 20721 11144 56459 90254 26526 25213 34739 34925 84084  
23406 74485 61436 74980 66742 21288 75256 89119 92616 76455  
29589 00798 88893 36222 65139 86275 75517 68540 37868 81288  
85827 88424 39420 01938 64770 17755 39912 77407 26195 40497  
07781 67915 36416 89267 86359 66378 16230 24187 31888 07186  
78586 89950 42629 30557 44079 62066 33790 75888 01467 18185  
37935 02551 05392 95466 35564 61563 28503 19919 45568 66583  
10154 18652 30219 37647 68868 50969 94415 16111 70773 19255  
83839 74211 71166 45576 11735 67696 71419 24950 68984 04960  
58400 91207 97176 31118 18604 56390 29341 50464 44177 09619  
28060 35740 73022 86379 75616 97661 30174 44148 95892 13133  
62634 05308 12689 35594 84845 53281 74149 35934 77003 92829  
98006 47403 03385 10448 17291 12972 42883 95792 31236 58568  
48937 78211 00000

**10671/8093/6879 kHz, 04-03, 0700/0715/0730 UTC** File 44479 (binary contents)  
**11428/8026/6884 kHz, 04-03, 1200/1215/1230 UTC** File 44479 (binary contents)

**10671/8093/6879 kHz, 05-03, 0700/0710/0720 UTC**  
**11428/8026/6884 kHz, 05-03, 1200/1210/1220 UTC**

11166 70202 04756 04080 01299  
87666 15757 38227 38998 01686 17912 81053 72295 58418 24976  
94227 31620 43320 95848 05322 95243 24773 32574 00210 45834  
57595 91635 48306 40396 51489 19966 51336 97884 27877 32843  
01584 34190 13539 75872 60548 99162 44520 38238 93945 95381  
78719 09409 23999 83354 40610 96490 84948 02816 46527 44414  
92727 64843 83956 26134 64724 94448 43269 95043 50593 28353  
25331 16778 60029 97622 73432 22602 98454 49851 02966 51567  
46554 90589 27302 73627 44596 48694 03291 10896 67474 95286  
44826 99233 01411 71025 77926 57364 58256 01353 35736 55688  
88328 04428 16929 01994 77714 21411 55910 86253 40997 23817  
78281 51685 45313 77584 39994 84271 26711 68593 73632 37929  
84720 19275 90264 37499 66090 51039 10293 26769 73616 72182  
21750 53694 61011 95968 89474 10013 99743 80127 00000

11166 70202 96357 04081 02639  
46897 71526 57647 76500 03829 89885 12778 42937 60527 48992  
51525 78439 75294 51175 14617 07037 45190 41373 99967 59384  
03949 65479 98143 68860 96166 10029 34572 01342 19950 84176  
23168 42109 55202 29897 61085 88327 19747 71343 19257 20520  
20469 39302 08433 51485 91662 31688 25385 76104 37777 96006  
08986 70447 22736 44730 60827 13648 73036 39519 10088 30958  
86799 05231 27315 81443 65966 59647 16830 38737 13824 69868

42427 38293 65056 71300 66068 89598 40497 10175 04244 76742  
43778 95548 31704 95818 42063 71707 87241 02574 98046 46923  
61204 68750 45410 39487 69444 70554 24929 26975 43373 57694  
23402 09670 90820 76421 82608 24077 07379 45012 70466 67482  
42929 05129 31591 19478 53024 97496 59430 71399 89824 35336  
57172 99610 12274 73985 79608 43573 20199 00153 73143 74642  
42023 89232 56135 66514 30782 04131 06755 03283 48124 34024  
50553 86020 40991 96506 64923 23838 40658 51543 42647 20356  
38829 00690 81700 91514 20462 69989 93532 75681 58032 00011  
46974 21972 96897 91444 89989 67735 86469 79709 16439 41133  
36875 36993 70051 49761 05789 25178 02797 41234 45131 48084  
29834 46689 62318 76455 48229 43130 75747 44152 11632 95563  
69212 38964 78098 64851 74927 36486 73244 92225 39853 50508  
35915 96404 55016 98338 38568 44240 52496 04512 99544 80833  
99779 91304 29429 30076 46168 29515 78670 01518 00920 47928  
78670 64537 47818 24910 93505 75728 25857 10574 24490 70442  
30717 52940 34752 54437 16746 26547 86022 56552 04099 86936  
04812 28366 20754 99455 20177 01753 34068 15814 40249 40295  
51582 96830 59724 45480 95742 04811 15499 03614 82241 13991  
32631 81261 00000

**10671/8093/6879 kHz, 06-03, 0700/0710/0720 UTC**

11166 70202 21574 25825 00049 00000 00000 00000 00000

**10671/8093/6879 kHz, 09-03, 0700/0715/0730 UTC**

File 44482 (binary contents)

**11428/8026/6884 kHz, 09-03, 1200/1215/1230 UTC**

File 44482 (binary contents)

**10671/8093/6879 kHz, 10-03, 0700/0710/0720 UTC**

**11428/8026/6884 kHz, 10-03, 1200/1210/1220 UTC**

11166 70202 96521 10083 01879

72884 50214 93660 38467 43249 10393 84650 85589 48231 24623  
14814 93475 83063 26085 10086 66970 22825 19442 15146 11280  
77607 50439 10159 59433 48562 79895 49491 09603 33271 04281  
33334 26982 53859 90056 48176 89890 06308 13983 37065 84821  
54394 26559 85580 80083 16695 80804 34479 32759 20098 93556  
54933 08641 18254 31473 47301 19851 98401 38934 49375 09816  
25019 50022 65035 40301 93720 51771 49258 60176 93851 90877  
10397 60609 03204 41050 15702 46377 63308 73193 10988 77969  
08722 95615 90400 64189 48760 56435 77229 09920 25111 25390  
01675 48767 93756 97220 86542 15240 04663 83832 76774 36176  
77645 87402 73773 46096 97872 71647 60440 56163 79436 73404  
27880 31448 70422 21749 39701 56183 97922 56807 94852 91688  
76431 65470 74932 56668 28047 76186 86902 84547 87943 80025  
37161 37557 93516 70196 97886 82237 80671 17217 51618 56061  
35671 21905 24987 79852 75987 13401 47547 95694 58601 84384  
96643 35018 39168 80697 14253 46545 30515 87542 06731 38790  
33882 79449 63411 16796 41356 26209 54989 17799 32937 71934  
97623 75501 16669 29474 93704 67651 85269 57326 85216 26609  
87715 11273 80637 17582 39187 83185 00000

11166 70202 10854 10084 01739

87972 79359 49265 22664 29041 83076 15088 64801 89133 51933  
08273 09902 83856 38353 37887 13046 12320 31413 91970 02682  
33056 80201 73073 52083 90043 67667 86238 13007 49756 39637  
02864 28751 35194 18705 48881 68785 67821 57665 90685 52170  
53346 12191 17256 51908 72295 37430 41913 97461 61306 38224  
72131 17588 96079 27617 20865 90702 11927 73361 57807 94944  
22861 37096 24040 75140 25152 35887 58484 68843 96295 80822  
09617 58651 25330 72339 30876 42976 35435 56985 83191 42455  
84761 75283 93082 84201 56408 55407 39767 31070 73509 32335  
69700 48130 00349 97189 62003 23531 15450 06432 93197 85957  
67577 05613 74703 85844 50580 47359 61523 32555 58029 08286  
55556 04703 03570 34523 51980 75801 17936 70542 02132 22442

58567 50972 91339 07170 92753 60090 55120 53257 40256 88675  
82208 53565 86341 42913 77825 80661 01156 85038 85649 90409  
26394 10410 91907 36194 15181 90684 60042 35978 36120 37804  
69373 59385 77440 68470 56206 26983 12172 73786 80820 38965  
10300 23769 68767 75412 08825 61411 99929 35326 75677 65982  
43769 84171 00000

**10671/8093/6879 kHz, 11-03, 0700/0715/0730 UTC** File 44485 (binary contents)  
**11428/8026/6884 kHz, 11-03, 1200/1215/1230 UTC** File 44485 (binary contents)

**10671/8093/6879 kHz, 12-03, 0700/0710/0720 UTC**  
**11428/8026/6884 kHz, 12-03, 1200/1210/1220 UTC**

11166 70202 41835 11086 01759  
29781 05341 14470 03220 19732 77388 22396 62447 19638 24556  
40482 84340 87489 61098 36465 64878 64675 76446 44968 89552  
15545 51798 44227 85754 33094 07285 85654 39327 65448 53135  
43415 11202 42831 43281 76210 15084 09717 54847 18462 42099  
91835 41950 43074 43362 52736 37256 62963 06382 19589 99728  
63549 86256 82905 32006 83386 77596 99882 15844 85132 38095  
56037 39059 84030 99707 64837 12427 26105 28364 10005 99935  
33242 18149 60181 10884 57365 30896 10645 27208 10870 17131  
31768 64513 65517 79293 28899 90238 36979 63193 43354 47371  
97204 88610 49217 57178 81814 55011 25621 99385 84697 83282  
09207 93208 57006 79450 56449 27731 52727 31305 70527 15022  
88032 73871 72440 64440 06575 84665 21041 01580 67934 94680  
11691 80272 01403 26020 08210 61096 92272 92140 87816 54830  
92846 21624 03747 54280 75337 91422 95227 02929 68845 80515  
99511 73831 47614 79911 45646 57211 62732 19939 34661 80178  
34491 00757 35885 07016 47566 37028 54046 93472 16222 52684  
46871 93494 11721 86736 97859 41832 69132 96044 73915 60976  
15718 66014 22537 86173 00000

11166 70202 10846 11087 02039  
66616 17896 90579 57606 46756 67402 94152 15749 39135 39083  
08819 07023 68324 64664 12526 92727 73613 79525 51865 29326  
29871 95783 51265 33186 65000 58296 36747 18070 41153 19507  
53905 03825 91913 94079 84823 19693 32612 79252 93601 50696  
85983 51856 55179 00516 90335 77921 47155 69321 82433 95831  
09273 69977 72268 58944 00282 31059 51919 48618 06835 60132  
05673 93592 84138 65719 13611 56657 33018 61391 65837 74530  
43098 00433 29534 61910 56792 14510 36044 15618 33769 54770  
80152 79777 20600 58836 48772 57967 55272 92104 21203 83284  
61246 36802 08164 82250 10761 27233 21784 93509 62053 54659  
93733 27247 00199 90240 83691 76264 36254 99480 45328 14656  
44379 46619 42002 45021 41645 12396 29340 80146 40199 73634  
46912 70096 26484 18085 86165 10661 47188 92943 26821 94076  
06635 10522 58916 87976 05272 59461 32671 53500 73969 94967  
03383 38501 83804 06477 63527 06787 36018 86208 79243 89334  
61838 47023 73418 68417 86859 63050 22525 30572 39647 31492  
59423 49361 09279 79064 99311 83854 81498 61502 31001 03762  
08162 29571 40713 77179 89681 60016 60584 81857 75141 74891  
59066 25952 09777 97707 15409 89170 84500 19833 45404 20290  
67178 75580 70603 51930 20317 49433 48161 18580 34873 63830  
03525 87201 00000

**10671/8093/6879 kHz, 13-03, 0700/0710/0720 UTC**

11166 70202 48152 12006 00049 00000 00000 00000 00000

**10671/8093/6879 kHz, 16-03, 0700/0715/0730 UTC** File 44488 (binary contents)  
**11428/8026/6884 kHz, 16-03, 1200/1215/1230 UTC** File 44488 (binary contents)

**10671/8093/6879 kHz, 17-03, 0700/0710/0720 UTC**

**11428/8026/6884 kHz, 17-03, 1200/1210/1220 UTC**

11166 70202 57924 16089 01199  
26806 86218 93981 33206 90865 09344 90047 47287 87740 14635  
63971 68589 24452 08077 75039 15400 76686 64367 53069 93418  
31027 81821 91662 55786 53840 70573 07967 95635 22768 53764  
67372 63339 81747 86410 96598 25666 05509 21633 33584 09006  
84482 78935 87640 93876 66048 94222 08293 52876 13081 56248  
86249 49288 65702 59166 34939 38517 17215 25895 26053 39537  
40109 81959 77524 68560 23126 84515 17394 52084 05283 36235  
71982 61536 17806 38740 51825 36677 69921 65283 33793 89962  
39422 57339 62846 09059 53959 74828 21850 99675 73999 54621  
42899 35933 13372 57051 58579 10422 58353 05083 16610 01172  
71229 45861 06305 97689 89261 89302 70280 53277 55003 03423  
99866 55798 38902 71096 37632 34093 40122 89117 00000

11166 70202 82649 16090 02359  
57120 76425 23996 57143 24648 22615 97586 37813 89157 38755  
85230 05578 49818 21852 52699 67973 12741 19613 99343 00834  
27487 06784 08531 44213 85409 70563 43486 25348 53234 72298  
24487 88365 40344 77622 48332 35415 23183 72250 36052 08913  
75232 05599 19756 69587 75989 29424 04598 50013 97387 23675  
66763 88321 91091 26736 73434 71772 25115 12249 35669 44878  
43192 79707 30117 61768 45331 51013 50531 87473 13010 90166  
74998 77826 27428 88297 59827 92669 54266 81211 96036 22039  
93390 91648 89382 30032 16929 13425 49848 46040 44167 79671  
01555 58022 26704 82329 49012 87529 42284 35111 60659 51147  
20778 97101 55624 38048 50712 99192 04650 58359 39811 40535  
81105 41998 27984 47202 23050 92703 76179 10245 92251 26917  
79565 45328 41131 52217 78463 41136 23542 65001 65467 88741  
10343 72077 12197 09109 95691 65883 64115 20938 04993 07999  
76851 16023 40456 00650 92464 34319 25174 50883 79084 55905  
31688 57115 82372 52028 05949 72716 62230 62415 22641 26350  
13210 91042 32776 03721 92039 37552 89522 20451 00731 06500  
63188 40748 98674 61618 81301 21565 42190 17292 54728 86931  
74949 84426 75760 62159 17711 12897 99120 22584 30823 97765  
41803 36553 47900 41465 62709 07344 04142 89109 08004 43682  
07715 79157 33130 13577 27632 76576 37420 61128 96583 80728  
72245 91022 52139 25142 08639 50388 64770 11366 75321 62694  
26124 44099 03087 93401 95991 59771 36460 52024 31402 65770  
98585 60320 46285 90233 00000

**10671/8093/6879 kHz, 18-03, 0700/0715/0730 UTC**

File 44491 (binary contents)

**11428/8026/6884 kHz, 18-03, 1200/1215/1230 UTC**

File 44491 (binary contents)

**10671/8093/6879 kHz, 19-03, 0700/0710/0720 UTC**

**11428/8026/6884 kHz, 19-03, 1200/1210/1220 UTC**

11166 70202 34852 18092 01559  
18673 85851 44720 05128 18481 71721 44842 42721 06881 93523  
41042 00584 85096 52072 85900 59174 18198 61569 69637 40660  
47356 54601 63852 21378 20940 81376 36463 00267 05393 07891  
61269 40436 61847 42702 70580 26071 99382 47004 24353 01852  
40890 07697 94267 87086 62474 78124 86178 81733 92320 16180  
49390 06507 79976 74460 46181 44256 71980 22161 80017 74793  
54776 03391 05903 20375 50851 61611 71288 44009 79029 84863  
60986 67784 14867 51493 44530 03407 12083 81045 49409 12129  
70959 20027 08624 36262 64655 17219 55986 69462 59368 68220  
67624 57964 89273 33932 73104 49966 72197 62636 84625 35347  
76941 70395 17717 42899 78212 59420 01876 87275 60079 79132  
04587 82818 53905 59572 17150 66486 21696 71875 75777 97034  
20788 95471 16363 22667 10825 96717 86395 34323 88956 48646  
62435 46799 64200 46506 46584 74889 06893 98801 40415 96737  
34186 98496 19764 21575 17513 04092 58844 04050 22959 85246

77122 72319 20484 92153 00000

11166 70202 61743 18093 02579  
39190 38827 75680 36037 56949 75643 57187 17325 65262 92102  
41603 88164 54185 64930 19745 13650 79240 97000 07338 54129  
25739 07720 40645 62074 86877 92245 16323 00143 47788 10493  
80211 03864 92736 91864 94739 37395 77646 66646 39619 15784  
35152 59987 25542 92168 04347 09429 25541 33352 02439 91900  
53723 32207 80476 71120 46047 30320 30354 01356 22844 49334  
35266 48457 37756 54421 80810 14122 42801 98317 68924 74315  
24228 19364 01834 67789 88858 91988 28222 95639 05618 53068  
68776 17829 31913 52607 63331 57625 79572 02166 06774 49889  
00021 19483 65909 94141 93377 92732 94463 98357 71172 12836  
88433 24419 27358 47289 48939 71163 97313 53922 44792 55972  
09524 58041 91961 80828 59619 41392 92112 93785 61471 16369  
97424 81780 55020 83916 93855 55739 75532 98568 20062 13898  
13971 89043 64143 94288 23167 07850 05410 52321 49477 08328  
93352 24398 94618 72575 81015 63505 37368 38687 54944 57714  
69808 00750 28904 67524 27819 80024 93555 43001 20486 90765  
39281 06627 88128 49096 94330 12819 43625 98396 45500 20041  
76734 49627 33509 36451 26076 60035 40272 25025 48495 98677  
10261 79085 40460 72189 73124 04180 91208 09261 59774 67245  
72319 27222 29112 98995 93387 29212 47588 60466 78516 05343  
88780 09662 43282 36304 45182 29230 76882 22853 69377 01119  
59151 89613 86809 39138 67114 36635 47309 15366 50792 37140  
07585 41348 82923 04898 61855 90012 12306 79671 62818 69249  
75434 04164 00130 83084 46129 90904 28603 41393 27836 02518  
63289 04079 18299 93807 83650 70672 01274 89092 13996 51268  
44983 93239 72376 79752 12004 93255 00000

**10671/8093/6879 kHz, 20-03, 0700/0710/0720 UTC**

11166 70202 95782 20020 00049 00000 00000 00000 00000

**10671/8093/6879 kHz, 23-03, 0700/0715/0730 UTC** File 44494 (binary contents)

**11428/8026/6884 kHz, 23-03, 1200/1215/1230 UTC** File 44494 (binary contents)

**10671/8093/6879 kHz, 24-03, 0700/0710/0720 UTC**

**11428/8026/6884 kHz, 24-03, 1200/1210/1220 UTC**

11166 70202 62147 23095 01499  
35486 92115 42411 02311 32314 01858 07317 48720 78360 25054  
02856 97919 50539 60110 65267 27177 90531 67176 28970 51918  
67141 23634 22746 00403 18420 78511 60555 61545 59525 35506  
75415 48071 67239 19315 69789 42186 77075 04948 80906 15955  
53930 14718 84471 43581 22206 12599 85184 47755 66338 50623  
67516 47289 37674 47036 05172 98190 28641 00856 52691 45397  
00127 72556 67607 27332 73031 85556 36614 00484 19909 28188  
04171 76190 17647 60840 26992 86824 47119 57974 02846 23550  
50746 39683 47113 12859 83910 72491 15537 24056 21143 44080  
96592 24898 03050 41624 21940 27551 34882 88435 68360 92084  
72718 18587 49656 79658 58170 94218 21906 72609 87569 95201  
50560 03622 26559 35857 12770 61164 06033 88414 33419 63387  
60368 17890 78284 17660 93867 58078 52756 07944 86371 83358  
79568 77182 73966 55967 53970 96903 65723 53464 99769 41207  
82413 06054 74704 07343 28137 98459 98554 95147 00000

11166 70202 32749 23096 02139  
21461 22836 30082 35290 66798 79534 83473 50869 83397 34070  
03981 43244 47879 36605 52748 44771 30208 52863 12851 18172  
55678 42778 26328 60426 18160 95505 12947 15372 36809 81704  
75400 18419 73421 09055 20613 21839 52613 91925 51847 74057  
52027 71142 11305 51381 54744 44799 77894 65615 81086 96025  
49867 95985 42007 28683 67007 18823 81244 46893 52051 33436  
98440 39362 76042 07612 70394 54422 77292 91183 12658 76731

88644 71102 48638 41579 52731 66455 78425 47719 29896 86851  
64496 54677 28490 02634 76508 75473 12213 00340 62368 00682  
64192 21861 37746 14788 12495 10718 11246 90760 46739 13916  
87396 73783 80524 12795 14674 90092 39332 81326 70718 41838  
78614 95285 01958 73923 61744 40739 59805 23762 52508 95295  
00629 89865 01849 80533 41677 80233 33523 09071 90152 26456  
58385 74692 87610 74477 71955 58985 36889 87961 14991 52915  
03729 25190 01724 16783 10306 75431 45467 26991 62834 65724  
36270 83073 80439 74003 50309 73409 17497 09517 95708 23070  
96603 46459 24473 72231 94390 21769 65221 58586 47351 33024  
56404 02206 69876 97372 84708 16274 01686 57431 58309 92137  
26841 45098 69688 32117 31524 39216 27679 28501 92780 78015  
63442 12176 15402 12279 40060 19313 59139 10176 20417 49574  
23441 49683 73083 14245 81893 59546 20868 97749 83556 94715  
61733 96211 00000

**10671/8093/6879 kHz, 25-03, 0700/0715/0730 UTC** File 44497 (binary contents)  
**11428/8026/6884 kHz, 25-03, 1200/1215/1230 UTC** File 44497 (binary contents)

**10671/8093/6879 kHz, 26-03, 0700/0710/0720 UTC**  
**11428/8026/6884 kHz, 26-03, 1200/1210/1220 UTC**

11166 70202 14285 25098 01419  
36941 80571 46983 68595 90773 28915 64202 30147 65564 86751  
16453 25016 99279 08734 76102 85513 80897 51835 63434 65187  
13780 85959 68472 91673 98670 02701 63523 73155 84768 64436  
17378 13132 62299 60934 47111 13170 95024 65669 68420 68329  
16139 09039 30432 84960 35974 10654 45919 75541 34965 37901  
52871 10262 40306 82966 68341 30028 09728 75496 20521 50584  
70848 73098 69977 12432 89531 96852 55981 56238 65674 04042  
28877 28423 79886 15262 54419 46607 39477 38127 01025 79605  
97198 54737 45869 21671 41184 65106 60769 65655 79508 03730  
63790 04783 67823 71491 47506 17728 53487 50084 19871 16686  
34643 91139 18606 63103 57675 97253 85081 80792 01478 37089  
08592 21081 21981 61756 76984 59706 55365 14643 94573 30134  
03413 51891 53279 22993 49412 15709 67922 06305 78080 27696  
11618 46208 97915 94383 12205 32854 89434 42159 95650 98139  
00000

11166 70202 52164 25099 02399  
42262 03543 68152 03455 72324 58832 29172 29751 01498 51654  
20545 85327 84929 56651 84986 06285 90809 28112 35715 42590  
63270 33269 16683 27936 15480 36471 17188 21584 82587 82673  
83076 33111 89219 53683 91712 66012 11222 95590 82904 41081  
36317 40837 62973 85509 53384 73345 24162 98662 25035 10151  
46550 30434 23179 97981 74690 33148 32263 48212 86128 72929  
49877 58632 94012 11484 39410 95473 50964 94227 14441 34129  
46416 05700 59559 81994 14588 78202 17297 31880 95293 64590  
95861 19429 14773 11175 77358 82974 78725 91644 31187 49274  
94742 87970 62301 93562 66316 29222 49021 47359 25629 24220  
50083 52463 97282 48987 85614 84585 10190 74915 21723 95035  
99785 48588 13383 43923 67764 59215 85317 23294 91520 54583  
55551 93649 00487 91499 31322 82278 61550 31625 32055 16846  
40745 18673 19065 92669 33392 97884 36690 97133 79894 63722  
94531 39655 09354 46737 45507 60670 78217 75518 39379 18048  
96119 74688 56465 74392 56133 84869 51214 33655 11586 15555  
60325 00505 66660 66833 55115 60889 72945 80893 42800 07225  
49128 09261 46405 56645 66027 06681 17956 35773 64136 87611  
64677 30409 95879 06244 92854 23619 09765 46000 99065 70626  
18607 29439 63459 83967 19038 84507 24772 27325 54455 28082  
41777 41506 38632 52729 70835 50974 82147 27627 14260 24394  
88839 49584 19158 87609 14471 05097 31454 12508 04778 29371  
34777 30195 55113 73263 28895 41929 58850 14067 27391 26241  
36747 71076 79260 65688 64457 11887 44129 99237 00000

**10671/8093/6879 kHz, 27-03, 0700/0715/0730 UTC**  
11166 70202 19485 27046 00049 00000 00000 00000 00000

**10671/8093/6879 kHz, 30-03, 0700/0715/0730 UTC** File 44401 (binary contents)  
**11428/8026/6884 kHz, 30-03, 1200/1215/1230 UTC** File 44401 (binary contents)

**10671/8093/6879 kHz, 31-03, 0700/0710/0720 UTC**  
**11428/8026/6884 kHz, 31-03, 1200/1210/1220 UTC**  
11166 70202 39615 30002 01699  
81613 75756 01047 99703 75727 03054 68332 25968 35440 39578  
20732 36761 32889 41792 94438 57454 91970 89408 64169 17366  
12970 27282 46355 34477 39861 20675 69234 34609 99976 72338  
52012 16023 70725 74854 60308 95355 53046 96662 30045 95850  
56290 25218 76989 63803 24216 15717 34127 24172 56785 18823  
84050 11284 07448 85838 78560 35576 78518 82384 05011 28407  
44885 83878 56035 57219 55172 38611 82811 06921 08468 73459  
71080 79241 29148 93264 57093 69158 02516 01564 18674 41455  
05771 25831 75590 81948 77947 85927 25555 46273 07534 50928  
22127 18119 67451 32773 36693 87889 52079 90161 71717 87708  
96031 41148 17452 43704 79344 07864 69282 31525 48784 41799  
47922 46008 09960 03096 89605 20951 69915 92282 98508 59911  
34902 57880 78546 63991 93016 28336 86766 67519 36387 41698  
75500 17587 02593 71493 15484 58369 40020 72228 17111 06165  
26826 92954 92023 26103 98197 32344 22228 46440 61610 33700  
28904 71400 04751 43350 58123 78478 25815 80857 25638 11161  
40845 94479 87947 02992 47814 00323 31816 02167 00000

11166 70202 96415 30003 02179  
63155 37297 58617 90460 61848 34453 74853 83983 91478 94148  
38384 63527 81745 23746 55333 81261 76281 30352 80932 86861  
66021 56405 41225 54751 19151 98180 69309 84093 74825 43130  
35830 69980 92848 87023 78388 69242 76490 16795 59569 09332  
10643 70064 08270 13705 82493 07250 24009 42153 76899 57212  
48926 69500 63669 22381 37130 51130 18913 54281 76105 48759  
47671 35413 39857 14903 99996 28418 78475 59471 97680 78461  
73826 46930 13815 79784 16024 97469 72367 42341 80412 90609  
59971 19486 09706 94682 67103 82617 31002 70643 00846 53750  
62342 23618 36420 31915 88514 00656 99675 74359 10772 58106  
97721 18466 00179 47060 39897 55327 09244 90297 16249 90923  
21553 49177 25729 55831 44069 03902 71281 49408 71802 95600  
64007 29388 79521 03675 03607 82818 20219 56816 27273 39289  
34981 01171 44229 12382 03996 74064 98106 80276 93335 56727  
24329 41461 77252 04466 94716 06472 40629 77709 66474 11608  
91306 22379 77771 65558 36957 73001 57082 64870 06197 77024  
38489 39211 18621 63751 00130 12345 33459 06350 67972 89773  
31521 50360 52114 08979 10145 07146 07791 13191 95806 35724  
38266 34633 04102 61413 81823 98184 01776 04730 50007 81378  
50490 18984 09339 91689 37021 59995 23663 47053 19562 36383  
99334 70527 44832 13858 00423 35069 15678 71950 26121 19336  
13839 36624 67553 60465 07589 03215 00000

Link 80214

**20219/19353/14375 kHz, 05-03, 1330/1340/1350 UTC**  
11166 80214 10245 05017 00049 00000 00000 00000 00000

**20219/19353/14375 kHz, 12-03, 1330/1340/1350 UTC**  
11166 80214 24879 12012 00049 00000 00000 00000 00000

**20219/19353/14375 kHz, 19-03, 1330/1340/1350 UTC**  
11166 80214 61285 19078 00049 00000 00000 00000 00000



20219/19353/14375 kHz, 26-03, 1330/1340/1350 UTC  
11166 80214 73592 26086 00049 00000 00000 00000 00000

Link 90017

15739/13429/11068 kHz, 25-03, 1520/1530/1540 UTC  
11166 90017 95317 24054 00029 56687 00000

## F06a

24572/22875/19661 kHz, 28-02, 1600/1615/1630 UTC  
20757/17445/16323 kHz, 01-03, 1600/1615/1630 UTC  
24861/22859/20728 kHz, 07-03, 1600/1615/1630 UTC  
20757/17445/16323 kHz, 08-03, 1600/1615/1630 UTC  
????/19163/17469 kHz, 15-03, 1600/1615/1630 UTC

File 45441 (binary contents)  
File 45441 (binary contents)  
Not monitored  
Too weak to decode  
File 5443 (binary contents)

19629/15828/12176 kHz, 03-03, 1530/1540/1550 UTC

ID 80038 would correspond to the Russian embassy in Kampala.  
File\_KI80038.001 (1556 bytes)  
11100 80038 15792 03001 02519  
23209 75291 05081 19460 36441 61231 82002 81890 46184 40381  
42329 68425 13419 99656 05673 77292 05144 28316 64684 78568  
80788 43808 83050 47882 79521 22015 15454 09995 56856 74080  
60452 46920 44025 36998 82195 50285 28538 70169 61936 22621  
79370 75094 65260 57261 65223 80402 35977 51547 39279 59401  
52607 33016 88901 72327 08405 03266 73719 50501 00853 29185  
00519 64549 41572 36236 08396 43917 22575 83467 62599 39814  
99797 24966 80497 48826 79870 87404 38117 39344 21035 18408  
30684 48021 84160 85397 85604 38428 94805 29608 51329 39118  
02241 04984 10526 03253 46383 56603 91015 57020 68589 18362  
72892 28991 27216 34569 15276 77630 03922 35162 51129 59136  
11612 19220 23583 02806 39995 26470 62194 86091 99664 01460  
22594 26575 50660 80103 37942 33001 26436 53274 55641 82596  
89171 87131 57744 16839 77383 04884 88478 72870 31737 59651  
37355 92745 10042 53141 51265 77697 27325 79807 74029 79611  
81952 01181 36817 46893 53718 80070 47890 66915 84841 29313  
55093 72244 79818 54757 79543 02808 85051 97177 43940 41224  
34203 02804 43948 63449 70218 77141 36082 71953 79927 01793  
40532 03596 02205 18943 82366 29405 95579 13221 19558 88432  
76277 45595 31254 22875 62587 19027 64744 06662 86536 80531  
64559 84682 58769 89363 32128 64840 97596 06004 89446 30140  
58142 81622 45185 62963 22518 52734 86670 98758 36977 70704  
46195 51298 06980 20811 15067 76712 86098 10545 03862 68475  
19717 31835 72296 00546 29445 26887 77175 60822 49198 12323  
11836 42137 48871 41307 35535 82945 06552 08353 16222 74910

14379/15805/18041 kHz, 04-03/05-03, 0600/0615/0630 UTC  
14379/15805/18041 kHz, 11-03/12-03, 0600/0615/0630 UTC  
14379/15805/18041 kHz, 18-03/19-03, 0600/0615/0630 UTC  
14379/15805/18041 kHz, 25-03/26-03, 0600/0615/0630 UTC

File 14484 (binary contents)  
File 43485 (binary contents)  
File 44586 (binary contents)  
File 64487 (binary contents)

16350/18445/20381 kHz, 07-03, 0800/0815/0830 UTC

98 blocks, 1 message

7943/6853/5869 kHz, 27-03, 2000/0215/2030 UTC  
12165/11044/10277 kHz, 28-03, 0700/0715/0730 UTC

File 44052 (binary contents)  
File 44052 (binary contents)

24861/22859/20728 kHz, 28-03, 1600/1615/1630 UTC  
????/19163/17469 kHz, 29-03, 1600/1615/1630 UTC

File 44645 (binary contents)  
File 44645 (binary contents)

5089/7337/9481 kHz, 26-02, 0840/0850/0900 UTC

File\_KI79993.002 (1831 bytes)  
11100 79993 73426 26002 02969  
92660 35501 43549 87325 20399 64248 38637 24893 45724 12589  
60307 90008 39782 48633 85996 29300 07959 35515 87410 56453

16350/18445/20381 kHz, 07-03, 0800/0815/0830 UTC File 42402 (1422 bytes, binary contents)

|                            |                                                                |
|----------------------------|----------------------------------------------------------------|
| 17532 kHz, 25-03, 0100 UTC | Active                                                         |
| 16351 kHz, 25-03, 0115 UTC | Modulation cut off mid-message after 8m                        |
| 14428 kHz                  | Not monitored                                                  |
| 17532 kHz, 26-03, 0106 UTC | Late start, 6m TX                                              |
| 16351 kHz, 26-03, 0115 UTC | File ZFD_099 (1843 bytes) 44400 09501 00000 25099 00003, 6m TX |
| 14428 kHz, 26-03, 0125 UTC | File ZFD_099 (1843 bytes) 44400 09501 00000 25099 00003, 6m TX |

9379 kHz, 03-03/05-03/10-03/12-03/17-03/19-03/24-03/26-03/31-03, 2110 UTC  
8161 kHz, 03-03/05-03/10-03/12-03/17-03/19-03/24-03/26-03/31-03, 2120 UTC  
7518 kHz, 03-03/05-03/10-03/12-03/17-03/19-03/24-03/26-03/31-03, 2130 UTC  
6783 kHz, 03-03/05-03/10-03/12-03/17-03/19-03/24-03/26-03/31-03, 2140 UTC  
5864 kHz, 03-03/05-03/10-03/12-03/17-03/19-03/24-03/26-03/31-03, 2150 UTC

[illegible]

54330 70087 02295 08188 75739 97894 25502 46942 92375 41780  
80378 58241 31791 45140 87107 33989 83456 80116 05290 41703  
07499 35012 89801 97534 68532 27205 74087 76487 55521 46229  
04330 77040 73628 56726 72947 82344 18953 15940 24831 85194  
72139 85456 34782 68950 71751 41868 79579 61617 53384 16045  
53105 05239 65422 15717 97981 07826 97409 11034 52148 69986  
81943 87810 33814 03446 56047 98130 13231 83655 92949 62998  
44716 03668 40216 06736 57372 21470 25159 27799 27933 17961  
13477 35713 84167 07761 32052 08803 12308 70037 91840 52414  
66896 91544 71805 62314 06526 39055 49817 22951 03893 03366  
91467 95259 03602 82086 32727 73720 26164 93375 17390 17326  
41626 37825 75247 84176 61258 50674 51908 24365 20756 11548  
26227 10856 53376 03895 76267 13040 76456 41326 79731 42649  
39746 03037 59806 26725 08996 45487 12355 87324 83234 82554  
75387 32652 69182 51322 26769 89303 61218 05696 21071 30311  
00364 05051 01533 78680 10698 90079 48050 91097 36661 63031  
47144 51500 29665 14540 94829 29208 57467 64218 68345 81278  
34725 07210 27653 03796 98188 83879 32677 61776 74955 14853  
87185 52363 17232 68551 45285 81023 02032 53456 41440 55409  
19255 52252 29973 26592 96587 40062 44962 32336 34649 53943  
16507 22121 50836 05852 04254 68586 55291 56239 34171 95086  
07438 90488 49458 74051 26526 65368 11573 75829 54612 17696  
12284 72713 95418 52387 82697 27824 77511 52099 10192 23547  
15237 75634 99208 09206 65835 37308 36818 72665 06201 84450  
49012 65543 77695 15255 58657 36723 72471 04132 81048 53859  
59736 26779 17992 17557 75392 02143 36360 97908 23501 93461  
42069 48092 62986 35580 85386 74698 78048 80716 58536 69488  
55691 79880 71523 32263 18821 42119 17115 39534 88355 38783  
60926 38684 72761 44999 17534 72300 08483 35540 98566 62371  
99678 77272 43706 09037 30718 85377 70534 83577 49866 35527  
04162 20322 47596 49205 72591 37177 77972 94360 78725 79994  
96530 68579 84983 86688 13110 56965 71446 27118 83053 81913  
53484 29549 85500 04766 69779 67257 60314 21939 76709 33632  
07742 21503 10012 94244 64816 94414 99665 05030 16366 65569  
48945 51271 08410 38088 13558 87069 64266 67596 41827

**18726 kHz, 12-03, 1303 UTC, FSK 75/500. UAG: Russian embassy Havana wkg UAL: MFA Moscow.**

Message i.p.

51008 52816 56764 86541 31918 97831 30406  
72461 24605 49259 90289 99599 68722 61095 51311 41924 06543  
81877 17057 96923 98341 52128 60824 59482 35508 88632 40731  
66160 05700 28961 16090 45821 89730 34685 57241 37545 94894  
76728 66030 61767 54399 51270 49118 55574 47595 99666 11309  
08097 20697 30806 61084 56940 12685 69348 45538 31587 16061  
78270 56885 54706 27165 29181 77743 37320 65718 18811 57376  
28741 68303 55145 36072 07243 85451 61613 59861 22393 37030  
72788 52753 24968 05623 20113 38676 45424 72584 30467 30312  
06827 26453 87905 27022 83191 98420 28839 89027 39178 04539  
72269 80059 12069 99348 06605 95645 21962 70627 82132 19236  
21135 29935 82500 73339 18500 78643 73634 57876 40098 54153  
53539 92918 11558 85959 51410 08016 73477 16280 49505 45292  
65641 64918 26202 68491 41033 43046 43693 95179 95559 45610  
28732 94270 24446 77030 19903 16072 41221 89892 79813 47042  
20245 41312 95680 06439 48697 96666 16722 27051 98989 35370  
01811 87196 57518 38398 75811 86184 70699 62226 18058 80412  
94234 28892 31382 22306 56531 86848 65160 69268 72220 22316  
90794 54843 66712 25799 53071 39272 97724 43475 45841 81625  
84716 68129 85450 00718 82177 49331 80362 16965 57696 27531  
20410 92396 60750 21780 34111 10996 93161 25736 87498 66559  
17150 91674 22873 50262 61911 07162 60952 55123 14683 94096  
14830 39548 07208 84809 89183 17140 33555 54882 63183 64970  
60214 17416 80521 67496 14428 08393 95014 38307 61667 17850  
45205 86887 08223 46539 56407 22592 89811 92759 93628 13017

16156 kHz, 12-03, 1300 UTC, FSK 75/500. UAL: MFA Moscow wkg UAG: Russian embassy Havana.  
UAL UAL UAL followed by opchat and a message.

11100 70103 13467 12041 04009  
94947 11960 42198 43517 46960 04502 99245 60102 84972 61691  
79313 23541 80073 38747 32408 28378 02522 49635 16703 82242  
49327 48718 25577 34822 57870 42597 65542 61231 91488 61805  
33483 41960 07979 47061 66648 06595 46943 29749 63841 33491  
96923 11339 01229 22601 28254 71406 91221 83620 02577 58966  
57866 06666 94958 46782 27161 07651 89534 53357 55767 65562  
34631 62294 46531 93815 68296 93694 24253 12881 50182 07305  
70159 16365 60700 42084 38496 47740 53416 21887 03635 29901  
71592 81949 11522 14747 64834 95854 32716 44965 66767 07686  
42443 45211 19691 99030 74118 84872 57140 45550 20955 79601  
80295 42772 83713 23801 89179 05819 88077 71261 54571 72745  
20101 06124 41588 66178 53147 71366 20857 92946 64788 46995  
28229 86379 67060 95134 58960 20978 98557 14191 07308 54130  
51763 69292 87467 74568 34081 91187 96803 62249 85994 60780  
07295 89349 04790 21505 96144 17062 47281 86715 51490 67878  
09987 34287 14141 78049 10174 05605 41295 59909 16223 51142  
03164 28747 00747 89802 48444 73919 14904 74224 99575 78890  
07334 79223 63720 19881 36165 55573 70406 97819 47523 16302  
71761 83284 18984 47697 66288 79119 91400 62205 32113 30413  
37551 35412 80633 36527 41039 94293 66532 44867 83883 48925  
15061 31073 66242 84830 52549 95332 06696 58169 51080 29483  
96538 60942 23260 34612 06513 48395 28019 93825 69418 45832  
73392 29890 87041 76999 27204 02411 34833 81240 71604 24264  
62785 11615 62388 01940 15931 31154 79040 29512 22912 49449  
76434 90899 26052 66766 74137 50119 51369 17862 44242 34216  
41970 32693 83676 38551 03257 56212 81925 09149 33388 94428  
20092 81775 37437 78933 62249 82443 48672 67057 25020 19037  
05407 19876 36302 18725 56852 25218 19109 90879 96412 57893  
61429 20151 45860 94309 58071 19422 38821 23674 35412 97305  
77022 22958 94990 19880 57728 87829 36897 71352 95801 36720  
48871 43338 88836 30231 72075 07431 98790 73052 79449 50776  
48565 90595 27615 79303 56954 97515 68243 18340 60420 00320  
29837 65256 95118 01240 05859 73867 37612 95567 10146 75246  
27718 79630 85545 64660 21919 11605 76712 09300 50782 92337  
03001 56505 78809 58388 92397 47161 90182 04457 62422 63955  
48806 77397 58939 69191 06123 08998 88817 11842 55103 79722  
07377 08517 53880 30592 46553 28058 67435 65401 94730 34426  
00801 10454 64163 67578 22193 24003 06937 67021 99535 72591  
65401 67729 98789 16466 68019 23112 17541 71269 06550 34718  
52280 38183 55528 93368 22813 19718 19968 61402 02229

11100 70103 96541 19046 04003  
46184 77417 94219 69139 61883 59317 55025 01081 18101 07620  
55945 19416 61931 05031 21713 78833 96974 95319 74960 86419  
03262 76649 71616 22374 59602 07112 97331 65910 91824 39660  
10886 56016 95331 28617 45498 41765 05402 74962 03983 01862  
13689 02568 08701 38125 54349 82580 92225 72568 08234 48140  
39667 02795 98588 66617 18602 95373 76686 61546 57532 21892  
20852 01473 58819 67372 97288 97863 57027 65742 56171 79301  
58612 42037 61422 34125 23902 66032 77622 38724 77292 46990  
62481 13655 56609 24204 38317 74788 37561 33031 40979 71652

16156 kHz, 19-03, 1300 UTC, FSK 75/500. UAL: MFA Moscow wkg UAG: Russian embassy Havana.  
UAL UAL UAL followed by opchat and a message.

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18726 kHz, 26-03, 1300 UTC, FSK 75/500. UAG: Russian embassy Havana wkg UAL: MFA Moscow.  
UAG UAG UAG followed by opchat and a message.

11111 70103 12489 26049 04003  
77966 85755 84961 27635 25889 25030 02191 30836 91150 17427  
93747 32112 92991 94093 65065 82030 76328 14931 67275 69431  
26241 84815 97105 14650 02887 71885 07032 14023 32748 07554  
24117 27845 17174 72954 00985 28970 44140 01503 47352 54247  
14174 52247 15576 25971 16369 33721 38627 35549 15443 82963  
43961 06550 35762 29404 91686 79344 53282 98298 10504 84514  
31329 33405 29823 97212 61172 43584 31518 89673 93316 0301  
69743 24054 70453 59690 32257 52792 98012 31963 41685 18677  
13249 97677 20160 71805 38800 05736 65785 45631 31653 64687  
14342 59276 63463 88054 84696 38299 93153 01097 31334 71111  
17742 38672 52455 43225 12319 88914 27081 16208 95135 62390  
79597 45708 78718 91431 95177 49218 92958 89335 34526 76631  
91111 24115 21365 39905 74645 86481 01129 00553 97870 56760  
94269 29959 38302 00420 92645 85038 43665 46890 72399 66404  
91515 31388 21786 51250 22387 04400 07381 18123 32407 38541  
27095 05781 36334 87458 23456 73315 36933 76474 55570 53738  
61639 29655 53222 18208 52445 62995 01532 93085 19948 98399  
29624 97018 97492 78152 01736 90222 56350 84569 34198 53165  
67874 94502 86743 36826 23558 23407 01560 51728 48948 38637  
88538 87930 72338 46673 80151 83158 34184 83957 04395 81269  
48188 66038 49233 48240 49967 74693 16991 33857 94233 07736  
92120 24304 70693 81181 70781 43828 60584 58462 25683 12682  
35874 86386 04610 13519 19408 42518 86081 67426 34051 31114  
40577 33807 86965 00130 04100 77211 21405 25832 9163 89698  
51365 77513 36703 96808 52598 05354 50585 71158 06775 76937  
54896 39026 49455 65948 72424 61202 93851 59707 21097 08939  
79304 45323 63486 05228 46425 29145 22817 98592 74831 69203  
63921 61603 44423 25323 62563 31264 06128 56605 11591 33504  
73054 20959 37331 58921 67999 56364 24685 81994 88235 48570  
74345 40936 73520 14902 40588 20372 88272 58866 23057 04047  
53837 75252 11000 89740 91790 10401 03379 83565 64221 07338  
53297 15860 21912 90466 10013 45841 96378 69487 58156 47223  
96688 67250 74038 91969 97001 01216 53415 74393 25778 73223  
78209 42756 92572 47241 24196 30593 13377 19796 31892 04923  
20421 12763 89268 73538 67398 43212 99708 18574 66025 49984  
33667 48523 14901 81700 87448 85904 06572 75882 97560 32759  
23772 83872 84063 81162 60754 21239 21369 60955 30654 48368  
59907 41855 44832 10905 47127 32161 75124 94757 21228 41218  
34936 75330 76106 97847 40126 65688 20911 41918 35616 93334  
82679 31247 98649 60284 25470 31021 54657 66131 84438

16156 kHz, 26-03, 1300 UTC, FSK 75/500. UAL: MFA Moscow wkg UAG: Russian embassy Havana. Very poor signal  
UAL UAL UAL followed by opchat and a message

[illegible]

1100 70103 24891 26049 04009  
89849 14746 00957 03661 15500 91602 08240 54984 46164 12723  
406\_\_995\_\_80666 7453\_9\_\_1 78752 48511 41773 71490 67296  
58447 797\_8 6465\_\_7078 19375 07092 83341 04230 88315 39335  
34122 35220 25119 64513 75496 98197 73194 92379 8\_\_0 95623  
9\_796\_\_85 01045 95399 14868 12720 39711 64212 63976 27092  
66112 22329 99614 08965 07898 88203 65418 67344 68389 16\_\_4  
3\_\_76 83\_70 05548 44060 3\_490\_\_1 21840 67921 65709 35610  
35270 36040 356\_\_4589 89410 66930 10879 33761 95945 31008  
78413 57854 01930 55609 10260 38547 98939 96217\_\_654 143\_7  
\_\_1428 07117 3\_4\_\_60832 65545 02961 21603 09378 78500 935\_\_  
1\_\_'- 87958 05734 774\_3 15390 67022 03760 02230\_\_258\_5757  
04230 99766 2754\_4599\_\_882 07089 46715 30964 11056 71983  
\_5656 49521 68321 7\_210 190\_\_225 08834 29901 08799 04301  
9\_\_31130 95129 37129 77564 09110 2455\_\_65\_\_6658 802\_6  
08\_\_0 44727 51531 68797 72046 01442 81\_\_83\_\_1 74708 92691  
83953 5121\_30775 60913 59721 36333 309\_\_076\_0462 56990  
567\_0\_\_772 78382 42106 88533 81897 90819 50756 76107 01449  
97270\_\_59 94146 88492 99846 9\_12\_59075 967\_\_57314  
65337 21833 68139 15787 44587 16349 13581 15018 39448 77033  
13267 16549 71490 03616 00195 32114 08150 52096 23484 2\_\_\_\_  
\_9172\_3111 878\_4 47\_44 50840 14902 9\_689 2\_7\_\_74\_86 70971  
03132 11580 99289 26456\_1\_6\_04\_\_0 58722 21065 40960 38891  
33541 20372 90413 85026 29928 87781 39500 13985 09060 38624  
87110 06432 80289 24617\_\_012\_\_7\_\_130 23531 17822 5785\_\_  
4\_177 28301 66506 55052 64504 66004 72843 69486 18675 88170  
46797 87576 14302 10036 64127 61043 49598 95785 86375 75599  
18155 13442 29002 60375 99773 07794 19848 48993 09612 64856  
15126 28242 85306 66249 65105 39293\_17\_5\_\_46\_\_53 89375  
48408 74980 05155 68877 08231 16032 71944 69782 43917 32206  
51209 06397 70140 87571 91773 40300 57074 19404 87022 48451  
14693 000\_5 69793 66399 525\_\_16\_\_169\_2 67523 19729 54911  
23493 64244 54696 52867 60403 42155 99643 97429 96713 62990  
59111 65682 64700 63\_1\_\_32 11101 13352 73342 75373 13052  
\_\_0\_\_1\_8593 92810 12\_\_9\_\_9 01081 94502\_06\_68 0344\_\_  
\_\_772 544\_\_796 34510 27128 07269 27228 18336 30665 02362  
66596 18974 74222 28917 77864 41118 80660 73175 26978 63200  
60662 56207 32547 19558 67345 25704 18552 32710 01357 00212  
29256 56654 71146 89238 23507 17152 38102 37\_\_0\_90\_26 59905  
01235 68023 55067 4260\_\_024 18676 62025 31737 47668 02007  
61202 90135 01749 30399 30892 66182 64795 83823 09593

**M42b**

16180 kHz, 03-03, 0712 UTC, FSK 50/500. Russian PtP link 121744. Link id followed by reversals

**P07**

10328 kHz, 01-03/04-03/08-03/11-03/15-03/18-03/22-03/25-03/29-03, 1500 UTC  
9388 kHz, 01-03/04-03/08-03/11-03/15-03/18-03/22-03/25-03/29-03, 1510 UTC  
9062 kHz, 01-03/04-03/08-03/11-03/15-03/18-03/22-03/25-03/29-03, 1520 UTC  
8134 kHz, 01-03/04-03/08-03/11-03/15-03/18-03/22-03/25-03/29-03, 1530 UTC  
7886 kHz, 01-03/04-03/08-03/11-03/15-03/18-03/22-03/25-03/29-03, 1540 UTC  
7462 kHz, 01-03/04-03/08-03/11-03/15-03/18-03/22-03/25-03/29-03, 1550 UTC

## Q26 - Chinese military

14525.34 kHz, 08-03, 0915 UTC

H9JU H9JU H9JU DE Z1Q7 Z1Q7 Z1Q7 (rptd)

## XPA1

14451/13451/12151 kHz, 04-03/06-03, 1310/1330/1350 UTC

441 441 441 1 441 441 441 1 441 441 441 1

07196 00445 73400 76871 30592 73365 08493 69256 78884 31559  
33193 89952 51042 79934 90362 03893 86182 35594 95862 74291  
13487 58207 34633 15297 05656 64856 64825 26442 22077 85390  
08157 65545 54713 79361 04692 84712 12048 55763 96656 53545  
04892 17559 90731 69400 45383 03793 09668 13436 14483 22170  
55351 99758 85061 59404 24129 75003 64779 62725 78410 40203  
44282 34627 84260 17807 44067 49754 19995 51357 15549 66303  
98149 64285 34355 13849 93443 79399 59320 42998 35929 94736  
52206 78673 52649 20490 03031 99855 44762 30056 85122 99499  
78862 73552 13121 44786 87808 56535 45171 70941 61860 14376  
07730 44590 53357 84550 69171 85048 18685 97354 22604 05394  
90744 79336 73789 88299 56473 18832 38697 96548 12476 69430  
52084 02402 75900 75497 09799 99747 66761 03029 90008 71860  
66177 52154 11090 38243 17386 79874 96616 19350 58308 80744  
29283 70284 00664 14386 50384 66245 51038 36232 92636 26633  
13494 20286 17554 25739 75187 77860 18080 42788 50031 45325  
89723 08328 36900 85363 41565 88889 53982 58258 39495 22753  
67875 80663 43391 58679 84308 50643 21667 38140 54904 93888  
85101 52635 82499 11825 72182 95267 16899 61276 19770 36060  
93809 10992 17292 56301 12301 63415 74864 63037 53720 42475  
66134 37880 76572 04474 13859 84074 55455 75404 26204 75727  
65046 12074 72829 72565 56500 09110 58154 78354 18315 30277  
07019 90475 87172 97578 65045 36944 68448 59017 26117 58772  
08305 06930 98298 47304 78670 63775 44314 06094 83959 25840  
13308 00175 51718 85391 64711 33021 76296 94826 77816 42732  
82527 77297 49059 27287 26509 85972 04450 36854 45086 61627  
48251 89111 15240 11738 15876 64683 88337 72694 80504 44575  
24696 10463 84416 51810 01478 51928 40537 80386 35790 56388  
05522 72173 24001 12130 35654 50231 04844 96616 94671 44246  
06038 77194 46169 78779 85475 69922 75910 95947 40087 09594  
87351 87545 54859 48908 33986 42113 24394 59023 18361 71909  
20982 86553 61377 27076 69291 32684 38804 39705 27703 35491  
19060 50988 38352 08974 25288 14399 60542 98643 25684 26151  
09379 32987 86353 00176 07810 51419 35535 10771 34936 49795  
25569 70625 07633 34602 03731 01157 56590 38404 20631 93336  
79232 41850 90841 34580 76783 88983 18197 89977 48656 00251  
73346 46113 93678 72906 28028 94410 68498 49959 30698 38893  
30177 46471 24787 75612 28544 56571 77215 05220 45107 82849  
61646 42291 03221 36494 36530 08332 06991 29949 23819 76795  
65283 71763 84346 28638 16983 56789 78169 57354 00686 65995  
49098 47912 39537 66803 31351 08989 96818 64962 82322 76076  
68043 74952 79060 89117 90313 54090 53326 91350 77683 66287  
46555 25740 29283 60551 04519 77304 42313 84225 49472 77763  
09014 47677 42725 93888 66312 98264 06918 47429 00890 38100  
60680 06474 55525 39640 48077 00247 08489 22335

14451/13451/12151 kHz, 11-03/13-03/18-03/20-03, 1310/1330/1350 UTC

441 441 441 1 441 441 441 1 441 441 441 1

07464 00386 22506 07089 14376 95846 95006 06831 30857 81561  
48764 75161 75597 13627 02086 50669 64036 70075 40721 31242  
00339 09008 87683 64932 06790 88226 55987 86493 18424 39926  
80121 27150 11300 49759 54359 56323 90672 21138 15392 39524  
58293 36726 70667 17229 10106 73796 47397 28905 54839 77561



12868 49397 64359 83478 40813 33813 09892 89255 95174 67806  
74806 98080 23882 14459 38105 26602 87876 18475 89426 17690  
86523 76074 19897 69545 18023 26957 27113 00144 35233 42866  
66157 03004 50948 90000 18286 83392 28479 38009 04185 65423  
58273 34841 74526 27149 63594 45418 52551 52509 26660 88807  
79381 22404 22502 38037 78601 64301 85238 81642 24747 35599  
06882 78196 46881 81873 69535 43318 05234 10498 58623 89809  
15614 53600 95407 71365 01835 11286 75107 07460 82973 64160  
43343 31320 87893 23844 23541 62403 11435 23380 20611 21184  
95806 05780 84652 71941 73315 13725 55224 59927 14350 02713  
81925 99966 49600 97749 05515 30414 01153 76081 79774 26128  
86838 02078 21900 45013 93654 17827 19889 91658 93821 41253  
94126 15501 33140 19009 90978 09336 59219 95036 51417 35005  
08489 09354 41180 00639 91960 63078 49741 59128 39123 40063  
86917 35516 70104 89186 84829 39128 01458 03459 74532 73896  
17379 91520 07848 66133 15419 93779 41091 31478 50201 40351  
07716 30527 99569 53889 61765 79595 30754 57481 08575 68456  
60048 26071 07934 72653 34087 06621 50261 19254 32758 93151  
73927 76451 94203 25001 00464 76162 20693 21695 21824 43011  
24229 52133 53929 66397 33223 09610 86599 28296 13993 73039  
57484 12080 93875 11637 61322 96304 03052 77612 26549 50512  
11784 71661 10324 05889 50292 95109 90008 03507 98851 20426  
78675 92770 05904 74327 67711 65620 42144 24768 52081 42029  
69750 38782 17570 16616 43602 10712 98932 18427 59902 84031  
00189 74632 60949 14123 53820 15447 50613 10089 95722 92125  
25513 38740 82848 27858 22979 01241 34775 58741 08217 92408  
86720 46844 55519 79842 84506 62579 77569 06559 06199 50518  
86688 49512 28435 44137 49283 88887 96120 89860 44589 73759  
81170 45118 99247 99473 65408 67101 64897 71667 84409 43810  
64730 99977 66429 86537 86316 77568 60034 69694 71537 67717  
18829 37616 43515 63802 17712 82716 64603 60846 46500 63494  
70651 15580 91041 35912 13440 71940 49439 28380 76514 90486  
80799 66715 27993 99788 54784 59293 05307 94916 06869 82615  
57131 89570 29951 42923 76618 36536 13779 74549 54525

**14451/13451/12151 kHz, 25-03, 1310/1330/1350 UTC**

441 441 441 000

03045 00001 00000 10140

**14451/13451/12151 kHz, 25-03, 1310/1330/1350 UTC**

441 441 441 000

07536 00001 00000 10140

**XPA2**

13931/14831/16131 kHz, 0800/0820/0840 UTC / 17459/18578/19101 kHz., 0800/0820/0840 UTC

**13931/14831/16131 kHz, 02-03, 0800/0820/0840 UTC**

04153 00001 00000 33261

**13931/14831/16131 kHz, 04-03, 0800/0820/0840 UTC**

09136 00001 00000 34664

**Moved to new frequencies on March 9<sup>th</sup>.**

**17459/18578/19101 kHz, 09-03/11-03/16-03/18-03, 0800/0820/0840 UTC**

03120 00348 30157 37431 64681 00809 05182 57506 29873 89170  
55978 15350 19960 86064 12099 18323 22002 90028 05328 42617  
73285 25859 31600 61046 43392 62260 43065 01111 84459 43753  
67253 12474 65314 32073 22048 14784 68195 00493 52919 88350  
48206 27642 69656 82684 57847 36982 13171 51726 62728 51944  
13932 99925 00588 18474 75919 12518 24946 72873 30157 71733

94755 95732 84353 93569 68089 79846 88112 02813 66068 10527  
68505 89934 84227 63940 88305 72638 13868 53934 69518 46678  
77449 34658 54298 11254 30531 43221 77121 14672 73811 53056  
43554 32201 06021 69618 16146 84032 69491 11556 47837 66666  
21703 83068 61329 74587 14091 15090 28605 88018 67197 01042  
48608 14362 18525 19716 10836 70474 19089 23377 62725 66812  
27625 81502 41245 19208 23140 57246 29276 51117 69331 02530  
78967 48604 87852 85893 47403 87523 50989 77447 18343 64330  
13582 45853 55057 32467 04644 60274 94626 41906 44770 80210  
87880 65416 24980 80322 69463 16081 02032 00176 83735 69068  
63992 21202 81138 54700 77070 13230 00294 57753 17076 14041  
30474 02453 65004 65575 36916 04086 67731 81556 78827 76101  
23134 83952 13520 99131 33419 28609 94580 07424 58876 87892  
89051 61245 56838 73127 42123 88694 67027 77197 73989 37874  
78025 59841 40393 70798 65867 56425 71214 51212 90926 90256  
07688 84497 45962 31136 07498 69726 91838 83182 68012 96246  
71476 10524 40337 40595 49698 60948 44713 71443 27969 00786  
14482 01194 47465 49743 77052 03348 25058 64230 50075 66018  
52681 03849 73412 89734 86580 17100 26426 28447 16810 78245  
22492 63655 41257 40576 47623 25598 63346 34316 33646 86809  
69163 35628 70747 46972 31344 22331 52514 36797 53905 10603  
99172 03812 74903 50517 55490 73040 46688 51318 96532 22173  
30094 49534 25509 93525 21053 42559 93220 76728 23392 90803  
56677 91890 12299 81305 09042 46963 50463 09198 15584 92075  
04086 56467 23256 50121 55857 87358 81749 05927 01570 44091  
80035 03284 26451 69384 67801 69915 36197 44317 01811 77587  
44360 16915 10795 49070 24547 47229 31961 78387 87977 96068  
54063 71040 03240 88919 69932 51657 17858 13402 65032 44364  
24278 78915 79414 30130 28655 55767 83557 65555 56012 50796  
62460

**13931/14831/16131 kHz, 23-03/25-03/30-03, 0800/0820/0840 UTC**

00444 00415 39816 11436 80442 27205 20339 46226 38215 72774  
63387 48314 90069 66218 66262 28333 72226 65493 86516 28516  
09136 44261 99775 77733 97276 22258 84444 96533 90862 31938  
36524 06172 46648 35918 24493 19884 23257 94566 27388 28560  
36300 85830 18449 64597 24530 75621 45913 92290 32485 27663  
43214 93399 81751 00720 61240 90889 10296 19622 34518 77651  
03440 46146 29368 97510 15160 23087 26372 13737 32219 91658  
10765 95588 95313 08974 81545 17720 63247 31911 64185 60343  
21981 80776 29982 95885 29080 26686 83449 44651 78964 21390  
85186 46141 89659 12979 05261 23180 34753 88076 09895 21528  
58667 13936 56701 84402 15439 43267 07708 52690 28985 73654  
66060 27899 59436 92965 96487 93661 57255 48069 23023 47399  
98871 02916 49859 50919 37240 21322 84958 60475 72476 33256  
97068 15627 80296 54471 90582 52961 03186 68828 57915 26583  
41802 68693 62713 65856 72163 54549 11708 06252 87613 58957  
19831 02736 67499 89766 58459 85263 21135 50867 55599 36702  
06928 50719 51605 08533 26069 30222 28565 25795 46706 90020  
86631 66803 85089 05071 93617 98211 96204 78574 48840 66226  
91978 35841 44170 54402 65208 11430 26748 83941 31899 03199  
19611 89111 68642 01243 58107 40047 18512 31507 06568 22810  
33110 91323 13880 44935 50134 96310 80832 50904 09452 97342  
28008 42137 00893 15471 17074 69798 51173 61223 83131 60861  
94721 61392 46875 42765 45591 52911 37490 11201 91397 50664  
73306 66323 47031 68654 44162 86421 25938 36029 76500 52321  
12537 16393 69432 07502 18725 92381 39058 64162 19922 83464  
71125 70662 43997 19368 10850 59964 35077 78827 32897 88863  
97441 65561 09024 05276 87980 37383 36567 96897 93399 27309  
79399 04243 10929 20855 68803 45451 05076 12752 03857 31161  
90225 94624 28946 18702 44545 24714 27738 23150 79583 15257  
70476 95819 81436 29862 44663 85865 51678 72609 42955 32145  
07952 52397 66656 62452 45035 47926 24047 50016 27887 56758

50223 73394 79423 54678 17316 12234 86165 07497 87628 71882  
49963 40617 77962 00057 04129 95926 93254 32629 22897 94185  
57651 34744 35883 09539 42105 89777 81230 91664 18780 83333  
20198 72613 85785 91030 61663 01843 57594 78966 76134 09334  
61290 71101 97456 10745 94887 46798 15640 89009 27389 06546  
96354 98550 82258 80172 75109 07566 22591 53472 17607 24898  
51511 77726 25892 05216 17420 04828 61832 91537 26795 48618  
14777 04342 66938 77001 05589 48661 22707 20971 18151 85959  
51848 13117 91679 89365 79827 54446 19333 40698 97065 50072  
97518 65476 90271 70818 67805 26191 51480 77111 47431 53521  
68083 21260 26599 86908 23169 39664 82576 30430

|                                          |
|------------------------------------------|
| 12163/10863/9363 kHz, 1600/1620/1640 UTC |
|------------------------------------------|

**12163/10863/9363 kHz, 02-03, 1600/1620/1640 UTC**

07268 00001 00000 36265

**12163/10863/9363 kHz, 07-03, 1600/1620/1640 UTC**

03527 00001 00000 37255

**12163/10863/9363 kHz, 09-03/14-03, 1600/1620/1640 UTC**

01922 00099 31062 71629 29377 71833 34153 37602 60358 41036  
57261 75532 70985 88717 23655 64053 26622 28679 25568 76519  
17094 41625 60093 91180 79129 66297 79600 81400 33505 90562  
30441 76818 82255 44022 52776 59656 53929 37411 53978 63031  
05347 84487 00157 21717 16767 15107 36018 74942 26186 95151  
82918 48622 53951 95500 71630 70616 84331 23955 33018 75384  
71119 40669 64621 30486 15460 67913 08218 08408 55035 50707  
32831 14471 73996 66029 08842 35150 65431 44364 02579 09451  
72434 43039 53062 55638 95844 33127 18018 50656 61248 41549  
24271 14183 97946 85502 90541 94206 18959 43855 27978 16727  
50873 36330

**12163/10863/9363 kHz, 16-03, 1600/1620/1640 UTC**

03700 00001 00000 34653

**12163/10863/9363 kHz, 21-03, 1600/1620/1640 UTC**

09204 00001 00000 34261

**12163/10863/9363 kHz, 23-03/28-03, 1600/1620/1640 UTC**

00828 00187 27180 07242 16977 96584 52411 02892 22333 75788  
96786 64190 75679 84500 79777 95880 44201 49530 32840 32687  
57156 38652 04377 68920 55496 24771 35671 52945 41401 98495  
37431 50877 47244 89458 88745 31622 68484 95855 07636 66799  
85300 75938 05064 29490 25635 92426 29726 81239 17641 56784  
83085 06083 57612 11350 96342 23313 89631 70109 29521 82633  
75094 86086 74917 22918 83088 14959 62439 12766 49675 38913  
31569 86916 74262 12799 42343 58502 51464 70555 12669 31882  
78012 43102 64048 19856 87474 98741 43065 76733 87296 55401  
93293 03876 94080 33284 79670 87232 78430 13482 65454 14015  
46777 08422 81379 79748 66899 38893 82221 28376 12947 09587  
93646 06111 25452 36774 04342 88872 43029 65023 93502 28631  
59952 08164 74642 27476 62263 17876 70516 87319 33728 31517  
84964 52215 20588 57087 99335 72399 48940 47121 98528 66027  
72228 98735 80909 36181 16744 64186 11287 48008 37780 39307  
10060 30907 32521 44612 78499 89654 44290 02315 74477 74889  
38181 44155 09996 25498 78190 33400 26216 29042 33452 34928  
39179 62492 77045 50730 83637 17513 26452 19549 92928 05744  
85257 42191 67767 02784 62830 11846 60166 63949 01796 16152

**12163/10863/9363 kHz, 30-03, 1600/1620/1640 UTC**

05915 00001 00000 40256

14639/13539/12139 kHz, 1100/1120/1140 UTC

**14639/13539/12139 kHz, 03-03/06-03, 1100/1120/1140 UTC**

09206 00200 32867 07947 10826 29262 59218 93369 61028 60926  
62388 56434 24336 75316 33226 39722 06291 46112 19125 35774  
65248 23200 75017 63869 16319 64382 26192 86133 17293 17210  
03322 85274 50766 06711 93553 03800 63913 17208 11345 60041  
91137 87486 34608 59875 85216 88937 06374 41952 34724 41311  
59487 14372 28204 43343 88589 82310 03072 43105 69276 11599  
32032 30279 27703 56486 23058 76908 36082 14024 35111 61104  
24638 46720 20961 43190 28711 75152 56091 93621 98346 88268  
80876 69518 95337 94781 38408 61143 10115 28030 56190 54582  
82351 52881 75384 92167 02501 85957 65444 15181 88740 37486  
21616 00939 11647 19312 31416 54976 90347 12821 61766 48133  
67229 98833 68780 07984 19759 56549 67546 71221 33486 33651  
39095 74147 16153 27999 92427 58360 74844 00808 58855 03458  
11547 59657 47772 68298 13665 60292 90309 43071 28166 13607  
27824 46714 06145 09987 13330 12847 44449 50576 93216 73794  
66071 84270 65852 03112 77609 07434 43593 41039 15469 65477  
92600 39295 06135 60318 09503 89540 06049 09673 78560 32558  
64977 78260 88003 86773 36336 48838 08885 33520 52730 83866  
33556 32160 84830 58626 56476 74782 31614 78487 83887 58567  
61233 28733 75048 56605 26703 03306 88581 72037 36235 37330  
86858 32025 60266

**14639/13539/12139 kHz, 10-03, 1100/1120/1140 UTC**

09161 00001 00000 00140

**14639/13539/12139 kHz, 13-03, 1100/1120/1140 UTC**

09764 00001 00000 10140

**14639/13539/12139 kHz, 17-03, 1100/1120/1140 UTC**

07235 00001 00000 10140

**14639/13539/12139 kHz, 20-03, 1100/1120/1140 UTC**

06622 00001 00000 10140

**14639/13539/12139 kHz, 24-03/27-03, 1100/1120/1140 UTC**

09055 00140 17448 87909 39311 44027 82380 08353 37660 00606  
67626 83065 56378 03663 00038 70083 00850 60052 00885 55082  
23680 78862 73325 32863 03220 00383 30553 05872 08602 50485  
06508 82474 99245 88623 06980 53749 08899 19632 02474 59836  
30910 21587 52006 01454 96656 42472 28527 03785 72956 31868  
29908 07420 25429 82086 28368 49983 46235 02737 99487 32262  
03028 03150 86059 63637 33612 53335 68385 54151 66692 06853  
55774 83035 45888 74049 75837 56200 42783 02048 56736 50533  
08202 00403 08633 33872 63838 50703 35286 28780 63687 32360  
30358 38002 50286 02376 25707 80650 37385 63300 52340 66830  
85056 38131 36368 38833 00066 63106 83772 82898 82227 96524  
97299 82527 80865 66883 05320 85097 63563 85615 08233 83537  
86210 88349 76531 75550 33536 84082 80332 47626 38253 06250  
08880 04556 68026 98086 62996 85052 02824 68805 28050 77923  
85032 46385 01432

**14639/13539/12139 kHz, 31-03, 1100/1120/1140 UTC**

04553 00001 00000 10140

17464/16203/13931 kHz, 1700/1720/1740 UTC

**17464/16203/13931 kHz, 03-03, 1700/1720/1740 UTC**

07455 00001 00000 35664

**17464/16203/13931 kHz, 05-03, 1700/1720/1740 UTC**

05147 00001 00000 35261

**17464/16203/13931 kHz, 10-03/12-03, 1700/1720/1740 UTC**

00382 00185 08758 19194 21444 80356 76882 71279 25317 50242  
61249 01045 07140 88673 84685 02438 74096 44192 45954 61169  
30350 21944 54344 81322 31431 52498 93385 87052 47728 09539  
09321 19260 79100 14520 77949 50145 27317 53387 52922 82125  
96144 51296 60752 90910 50882 16968 62842 38828 52771 35096  
56265 00378 74139 46133 05760 29086 05033 25092 68800 83825  
85047 15326 73597 87972 91339 40000 21715 85611 96498 55136  
10654 34369 02695 48511 11619 09598 72469 48310 93129 91272  
27165 50951 05080 02577 71313 02021 64016 62241 07351 91883  
72434 47675 51518 74802 27592 06126 92614 76499 05619 13284  
18681 10137 33614 16767 07657 32106 17129 50661 59933 76896  
07279 64735 20332 44339 68298 88940 57586 44180 27633 00531  
06234 24045 20910 93378 02215 43336 10220 46000 98810 81180  
70547 70572 95356 95962 33319 05197 79297 26076 07730 45523  
86855 95860 58989 32974 10041 80265 29684 63918 25513 78955  
90283 26987 58543 84442 37897 19859 38982 85254 93479 10511  
60240 41632 96367 48656 33956 79630 37593 97947 91316 22614  
58404 57941 75196 65723 97561 28147 13358 05458 39382 32447  
84425 61083 91771 18319 47743 68914 06306 30345

**17464/16203/13931 kHz, 17-03, 1700/1720/1740 UTC**

01156 00001 00000 34656

**17464/16203/13931 kHz, 19-03, 1700/1720/1740 UTC**

08506 00001 00000 36660

**17464/16203/13931 kHz, 24-03/26-03, 1700/1720/1740 UTC**

01400 00098 95537 83054 43857 69865 67965 55217 77751 68314  
83675 67334 56941 93998 00823 08465 44645 86297 27491 07124  
82891 83225 45264 29235 75683 07639 17529 73021 78507 56150  
99948 31775 49351 28636 31863 19609 41886 95736 60475 09378  
27689 51092 20241 77360 63263 91821 03413 42568 02697 87909  
56620 29868 88357 92949 54537 08496 15384 26841 92252 88400  
62719 20505 00353 79507 49941 58248 00959 88920 51469 70776  
95525 85255 33719 02118 68467 92649 24823 64497 59639 54474  
54147 28939 15448 78325 94472 59669 57981 02973 19218 84006  
26335 30979 44951 16353 81327 08542 67154 58020 55823 06475  
46646

**17464/16203/13931 kHz, 31-03, 1700/1720/1740 UTC**

03629 00001 00000 40655

|                                           |
|-------------------------------------------|
| 19456/18385/17451 kHz, 0910/0930/0950 UTC |
|-------------------------------------------|

**19456/18385/17451 kHz, 02-03/04-03, 0910/0930/0950 UTC**

02781 00080 38804 83447 58813 64469 44547 58786 60226 38884  
68665 50482 83908 68378 90064 88780 80007 31485 26164 34725  
33682 38618 28644 88783 33772 12855 71573 36430 45026 40385  
37600 43660 67888 82468 78326 46210 58183 31812 04113 30065  
78530 06060 68661 56300 23149 16365 50925 61700 50635 72503  
81023 17088 31830 00366 92285 04910 11565 11133 04705 09449  
99844 22369 18514 87586 86675 12001 12940 33284 00841 18008  
60018 70616 62718 69372 48655 28368 00713 60827 21307 21870  
46224 63100 41333

**19456/18385/17451 kHz, 09-03, 0910/0930/0950 UTC**

04425 00001 00000 10140

**19456/18385/17451 kHz, 11-03, 0910/0930/0950 UTC**

05399 00001 00000 10140

**19456/18385/17451, 16-03/18-03, 0910/0930/0950 UTC**

08392 00070 40060 69035 32985 30369 81514 91525 41795 88799  
13714 15272 86729 96029 00861 41096 63899 39068 90283 38762  
47015 33680 01963 76923 07766 28670 72896 99932 82049 04234  
39623 54487 71492 82474 70014 62286 56024 46467 62394 66007  
53823 94727 74229 36531 76301 17622 57936 03643 10537 70996  
83249 58110 91919 74029 70965 78737 10792 25927 87068 00487  
25258 75789 70332 67657 09267 94730 08248 06636 90479 89655  
31572 24395 47776

**19456/18385/17451 kHz, 23-03/25-03, 0910/0930/0950 UTC**

09842 00100 36684 44808 00175 02366 35286 94224 04588 57116  
04393 72163 88139 23411 76497 30371 94979 70077 23779 26947  
07016 02385 19531 63294 84170 44752 18512 53862 89048 78337  
86697 72928 50876 43964 42892 66100 32983 05518 19400 80595  
30267 37696 53190 03109 19603 38407 59080 97522 84115 40746  
61711 88561 93533 04580 65332 93609 41775 23886 67554 88342  
49068 77557 30405 66429 72641 61768 26462 68299 95358 19726  
05561 01004 55260 16715 73372 35346 60446 27235 70775 48612  
80451 75044 14482 51818 12153 74857 03448 26298 18689 27978  
40206 82274 90433 55436 71548 36210 24928 00625 73780 61225  
95662 94776 36646

**19456/18385/17451 kHz, 30-03, 0910/0930/0950 UTC**

09685 00001 00000 10140

|                                           |
|-------------------------------------------|
| 15861/13431/13431 kHz, 1100/1120/1140 UTC |
|-------------------------------------------|

**15861/14431/13431 kHz, 04-03/05-03/11-03/12-03, 1100/1120/1140 UTC**

00897 00190 05468 27997 79468 84669 61364 03716 56351 70331  
33608 29156 14702 26430 06867 76105 20545 58048 07401 19232  
45081 26040 93261 55604 64179 59585 59368 23775 99524 64506  
82708 50823 73490 98217 51188 33589 85137 37351 20535 23208  
76706 74932 04093 59320 82983 36358 37159 71501 46684 48675  
90824 24103 02183 82892 74509 20281 22373 70084 18927 29225  
20968 77109 80177 73122 41979 23516 26422 40138 18128 12180  
15005 01026 51923 77344 19305 36953 05353 09057 28373 20343  
59252 19286 47569 00239 23394 70668 39567 11726 92392 73704  
49919 63192 56974 20189 53900 10484 36493 03236 99392 25850  
75444 40847 46495 36481 07181 61960 89541 73442 14448 31040  
66876 44992 27263 64197 70356 26474 49295 23139 48582 36972  
82236 03715 86057 59113 06093 40981 81522 55746 01722 06850  
25943 03363 65955 46549 54380 90706 06133 81853 71614 93888  
37139 47446 28189 49835 75171 48673 33145 91397 84188 20680  
66291 57126 56181 09068 91137 31429 69883 57448 87959 86669  
76682 57260 19119 17917 71326 85314 13267 20103 98741 58688  
80396 96628 63908 86293 21312 95664 63969 20974 95534 43486  
96303 24357 19847 89265 08597 39414 90551 75827 52553 82699  
58511 30682 33354

**15861/14431/13431 kHz, 18-03, 1100/1120/1140 UTC**

07828 00001 00000 00140

**15861/14431/13431 kHz, 19-03, 1100/1120/1140 UTC**

07428 00001 00000 10140

**15861/14431/13431 kHz, 25-03, 1100/1120/1140 UTC**

05088 00001 00000 10140

**15861/14431/13431 kHz, 26-03, 1100/1120/1140 UTC**

07189 00001 00000 10140

|                                           |
|-------------------------------------------|
| 14956/16356/17456 kHz, 1200/1220/1240 UTC |
|-------------------------------------------|

**14956/16356/17456 kHz, 04-03/06-03, 1200/1220/1240 UTC**

02915 00179 61717 84864 31384 42591 34014 35960 64504 29988  
01165 37319 35909 43422 38042 29204 50804 14186 09196 18294  
19425 04209 72213 85357 49264 56445 39630 67369 54072 57089  
08686 92982 51033 99568 29763 75932 93550 69543 80540 27093  
55109 88289 97211 39323 36277 63585 90714 89749 14151 58636  
09274 41038 90347 01269 82598 05709 68732 93992 42584 96566  
41704 25167 60522 09467 48047 02675 84254 52184 93568 37892  
86125 86551 41166 97897 80608 00183 65664 14880 62608 22548  
27770 06685 22942 50307 05328 58975 10543 46810 14166 39633  
18239 66642 83975 15770 13037 19494 64794 94089 71800 32522  
87133 90466 54762 16268 62700 46959 71759 79031 70334 74758  
85192 82344 99343 24369 70469 71393 57779 11635 25905 20096  
20380 57567 13070 55308 41422 74245 02147 34149 06490 50393  
10059 70637 13621 87183 33228 33568 76759 69698 51083 03270  
22046 12426 65871 68331 49150 68529 20961 77840 07614 31911  
43769 89797 79289 25757 93264 55070 25783 48326 54050 96288  
17689 61725 62676 49253 98470 60459 62361 25552 84508 03355  
94312 79869 38250 22516 68942 11389 93744 10609 95111 44355  
29310 57401

**14956/16356/17456 kHz, 11-03/13-03, 1200/1220/1240 UTC**

08251 00246 86376 74180 86782 21323 33159 08380 16133 80130  
18139 28853 85883 03725 65007 37856 87605 00323 65349 88809  
50150 63384 46702 61513 13054 70233 32880 02838 63888 78808  
83056 06277 48450 25047 28780 99025 41633 78568 37214 66002  
51717 00853 65895 60492 23626 44366 57419 13089 02880 80060  
47388 77934 00380 86630 67664 57250 08668 28893 12168 89244  
44800 00000 93814 18532 53163 53306 84488 08315 69071 68219  
99778 40259 13015 78701 56887 88139 45183 81710 62756 26730  
72187 28082 03444 50824 17427 73417 61771 66289 60012 40462  
66666 80898 73753 19393 10719 61963 26746 66763 95866 47433  
11563 46497 41027 18330 85870 69475 39324 94639 72121 55741  
10183 76673 08351 82551 41362 68482 40004 29426 70478 43832  
75412 80907 56668 46600 55390 01128 50452 07005 94358 14352  
34323 76288 90123 27005 28215 21494 34549 63319 76638 59511  
10778 13776 89582 86578 04708 91198 14398 44021 94811 89535  
18316 50514 03872 61574 51132 97993 37139 08881 01739 48610  
83301 06978 72411 41285 65552 47397 31411 06300 77833 39409  
47312 26228 55956 31500 20405 42847 90177 11580 81329 99985  
78255 75854 70934 71238 10016 46458 82300 99105 25448 52443  
16636 34481 74623 68731 52758 17536 94260 38844 81402 98583  
62718 81077 20634 73455 44649 26660 98795 49797 17986 61517  
51415 57186 93401 63283 56759 82753 19945 57990 61429 09562  
28626 68614 27544 27883 03156 27331 85542 85525 53487 56180  
43134 86614 11608 49150 01290 00603 83891 65321 28153 26096  
54221 86407 36604 11079 47685 77092 73670 47040 54376

**14956/16356/17456 kHz, 18-03/20-03, 1200/1220/1240 UTC**

08261 00212 52731 14711 10349 70571 28436 61264 86198 67852  
74623 44731 38403 27163 91049 09534 79124 90277 14651 18196  
01307 49337 02498 82361 81910 25337 65030 40269 07724 39225  
97836 65205 50371 82581 61892 30666 96994 66893 17248 13721  
58126 51594 57788 43430 02144 34188 89277 18239 81930 72586  
54714 69153 83572 16018 94908 75380 34134 59662 68772 27767  
20246 63204 68796 01647 28172 84515 01105 32862 42296 77319  
25725 71257 98489 45282 61198 00540 12014 44424 40388 59922  
10400 86676 18932 58604 13692 10060 15823 14239 73437 82779

85059 06241 60059 87245 02982 97602 87110 48727 06147 87837  
76969 99117 55809 90077 06700 97979 79658 05398 02721 25979  
45243 08841 75143 53639 31262 66515 21153 13279 27620 51242  
74615 36516 93094 32140 58150 80391 98437 00919 38755 07420  
97509 96028 54790 24691 78591 88083 09850 14766 83879 90363  
73111 87458 50103 73815 50787 06376 23022 29747 89932 50784  
60315 16869 73494 22259 69618 09065 48933 58659 49774 20050  
09424 44084 46991 31500 79243 91990 27075 58490 97714 58851  
22371 74022 01649 56939 51585 42015 29071 04835 95676 29292  
40872 16745 04890 88712 61847 81007 32977 84915 69712 14073  
35251 46408 91035 01475 88023 15072 01430 65232 98594 42779  
31608 42471 90104 18129 35084 76065 98458 58317 60873 42055  
86777 30452 00816 20299 21334

**14956/16356/17456 kHz, 25-03/27-03, 1200/1220/1240 UTC**

09736 00238 09664 97560 15063 72547 46675 54151 52629 16100  
65990 06932 59650 74673 98727 92501 45121 24433 31767 48358  
71843 99494 25191 30495 93462 38612 35546 22207 18105 09772  
38063 68452 42363 83310 81057 73511 36316 05604 35429 09188  
69257 71168 58321 45036 21637 71674 84442 54927 53713 19273  
12130 20313 00316 46599 83388 11164 20566 30470 34080 58195  
90983 31953 20014 83668 97594 63406 44632 84313 91671 11290  
70118 45956 79744 14581 91491 45684 97853 49873 22144 09273  
03265 77840 42269 45811 55245 70966 65284 41103 50415 36418  
44859 36794 27605 04264 18478 96159 67832 17776 55951 27707  
99701 54378 65763 97764 58090 16220 40567 15212 07719 83227  
76847 91340 42660 80926 50716 97077 56481 15352 84829 95630  
00741 78670 15249 66150 94563 86684 85293 57638 62182 88265  
15327 06687 64193 52012 95535 31887 29575 93211 96057 65530  
95965 57992 36528 56883 47030 02964 10698 80531 70147 59090  
88652 95923 33782 29648 76020 82050 21541 57495 29863 85777  
04251 22983 36940 71597 85562 72182 57284 17738 34388 71959  
00091 63032 37923 87165 39799 02756 64263 97192 60468 80785  
59346 06970 44916 79785 19789 13826 83736 99210 66860 00141  
21770 33509 85324 57429 71465 59589 65792 99852 06478 26531  
48277 73801 13778 11061 02098 19153 24993 26019 85731 75236  
03941 29974 08492 61364 87740 60411 14909 58299 72325 56848  
48102 49278 97701 65957 84808 01701 47956 90751 96233 86729  
37095 29736 59183 54622 17341 17916 34656 35170 72809 65564  
25637

|                                           |
|-------------------------------------------|
| 19426/18543/17478 kHz, 0900/0920/0940 UTC |
|-------------------------------------------|

**19426/18543/17478 kHz, 05-03, 0900/0920/0940 UTC**

08145 00001 00000 10140

**19426/18543/17478 kHz, 07-03, 0900/0920/0940 UTC**

02660 00001 00000 00140

**19426/18543/17478 kHz, 12-03/14-03, 0900/0920/0940 UTC**

00966 00172 86395 21660 55200 24653 48021 19160 15936 07573  
87349 63626 60604 62313 44552 84979 45269 16854 20180 95407  
04292 00314 74881 09803 90021 17395 78372 83049 35432 93623  
57499 68529 95238 55809 43997 03013 98850 27413 88322 72805  
46329 44989 56071 86707 98348 59884 51952 09746 73692 50682  
70656 06904 29691 46454 81885 32155 32906 92251 19868 97989  
70398 09376 28677 25772 77223 29329 98417 34813 95921 49960  
95303 81267 86749 57576 50974 81468 28523 83227 23813 04957  
30708 70846 22382 28026 36454 37358 14486 63547 01253 51375  
68319 24049 73816 93385 51608 12012 47891 99612 45909 92602  
64261 38038 39226 07957 76768 37580 54235 92799 49249 34762  
52476 50406 03107 91839 92130 76745 98424 96482 45692 51722  
64770 22400 37159 58851 51145 83025 13019 52880 73970 00504



88395 81829 00991 59957 71314 90587 43995 87114 86333 30383  
92392 22045 48437 05622 17309 49859 88402 58716 09689 04125  
65601 00201 79750 49887 14158 41419 40121 29877 60213 37782  
22076 86535 93223 29506 64240 57987 05721 20135 07852 51079  
37392 97295 68216 91445 72736

**19426/18543/17478 kHz, 19-03, 0900/0920/0940 UTC**  
02429 00001 000 00140

**19426/18543/17478 kHz, 21-03, 0900/0920/0940 UTC**  
03432 00001 00000 10140

**19426/18543/17478 kHz, 26-03, 0900/0920/0940 UTC**  
07189 00001 00000 10140

**19426/18543/17478 kHz, 28-03, 0900/0920/0940 UTC**  
08031 00001 00000 00140

## ***XPB1***

18434 kHz, 02-03/03-03/09-03/10-3/16-03/17-03/23-03/24-03/30-03/31-03, 0600 UTC  
18234 kHz, 02-03/03-03/09-03/10-3/16-03/17-03/23-03/24-03/30-03/31-03, 0610 UTC  
17434 kHz, 02-03/03-03/09-03/10-3/16-03/17-03/23-03/24-03/30-03/31-03, 0620 UTC  
16234 kHz, 02-03/03-03/09-03/10-3/16-03/17-03/23-03/24-03/30-03/31-03, 0630 UTC  
15834 kHz, 02-03/03-03/09-03/10-3/16-03/17-03/23-03/24-03/30-03/31-03, 0640 UTC  
14434 kHz, 02-03/03-03/09-03/10-3/16-03/17-03/23-03/24-03/30-03/31-03, 0650 UTC

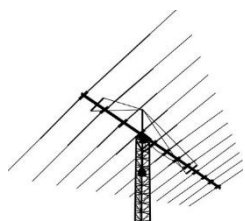
18434 kHz, 05-03/06-03/12-03/13-03/19-03/20-03/26-03/27-03, 0600 UTC  
18234 kHz, 05-03/06-03/12-03/13-03/19-03/20-03/26-03/27-03, 0610 UTC  
17434 kHz, 05-03/06-03/12-03/13-03/19-03/20-03/26-03/27-03, 0620 UTC  
16234 kHz, 05-03/06-03/12-03/13-03/19-03/20-03/26-03/27-03, 0630 UTC  
15834 kHz, 05-03/06-03/12-03/13-03/19-03/20-03/26-03/27-03, 0640 UTC  
14434 kHz, 05-03/06-03/12-03/13-03/19-03/20-03/26-03/27-03, 0650 UTC

20072 kHz, 03-03/06-03/10-03/13-03/16-03/20-03/24-03/27-03/31-03, 1300 UTC  
19572 kHz, 03-03/06-03/10-03/13-03/16-03/20-03/24-03/27-03/31-03, 1310 UTC  
18372 kHz, 03-03/06-03/10-03/13-03/16-03/20-03/24-03/27-03/31-03, 1320 UTC  
17472 kHz, 03-03/06-03/10-03/13-03/16-03/20-03/24-03/27-03/31-03, 1330 UTC  
16272 kHz, 03-03/06-03/10-03/13-03/16-03/20-03/24-03/27-03/31-03, 1340 UTC  
14972 kHz, 03-03/06-03/10-03/13-03/16-03/20-03/24-03/27-03/31-03, 1350 UTC

## ***X-- Russian intel.***

20854 kHz, 03-03, 1230 UTC  
19628 kHz, 03-03, 1234 UTC  
9956 kHz, 04-03, 1404 UTC  
18564 kHz, 04-03, 1406 UTC  
15834 kHz, 04-03, 1442 UTC  
16329 kHz, 05-03, 0815 UTC  
19854 kHz, 06-03, 0742 UTC  
18564 kHz, 06-03, 0744 UTC  
16256 kHz, 06-03, 0748 UTC  
15624 kHz, 06-03, 0751 UTC. Switched to DSB halfway the message  
17425 kHz, 06-03, 1016 UTC  
13392 kHz, 06-03, 1021 UTC  
16256 kHz, 09-03, 1351 UTC  
18032 kHz, 10-03, 0915 UTC  
15785 kHz, 11-03, 1307 UTC  
18922 kHz, 13-03, 1243 UTC  
17427 kHz, 13-03, 1247 UTC  
15625 kHz, 13-03, 1251 UTC  
13391 kHz, 13-03, 1254 UTC

17432 kHz, 17-03, 0742 UTC  
 16154 kHz, 17-03, 0747 UTC  
 20161 kHz, 17-03, 0900 UTC  
 19083 kHz, 17-03, 0903 UTC  
 15674 kHz, 17-03, 0910 UTC  
 13837 kHz, 17-03, 0913 UTC  
 18648 kHz, 20-03, 1333 UTC  
 17423 kHz, 20-03, 1337 UTC  
 18446 kHz, 27-03, 0837 UTC  
 17425 kHz, 27-03, 0909 UTC  
 15623 kHz, 27-03, 0912 UTC  
 13392 kHz, 27-03, 0915 UTC  
 17515 kHz, 27-03, 0938 UTC  
 15735 kHz, 27-03, 0942 UTC  
 11425 kHz, 31-03, 1255 UTC



## ***DIPLOMATIC STATIONS***

### ***Diplomatic stations: Bulgaria***

14755 kHz, 04-03, 0923 UTC, RFSM-8000  
 14755 kHz, 06-03, 0933 UTC, RFSM-8000  
 16040 kHz, 06-03, 0933 UTC, RFSM-8000  
 17440 kHz, 06-03, 1321 UTC, RFSM-8000  
 18455 kHz, 06-03, 1356 UTC, RFSM-8000  
 14755 kHz, 09-03, 0923 UTC, RFSM-8000  
 18455 kHz, 09-03, 1356 UTC, RFSM-8000  
 14755 kHz, 10-03, 0922 UTC, RFSM-8000  
 18455 kHz, 10-03, 1202 UTC, RFSM-8000  
 17440 kHz, 10-03, 1321 UTC, RFSM-8000  
 14755 kHz, 11-03, 0832 UTC, RFSM-8000  
 17440 kHz, 11-03, 1322 UTC, RFSM-8000  
 18455 kHz, 11-03, 1357 UTC, RFSM-8000  
 14755 kHz, 12-03, 0922 UTC, RFSM-8000  
 18455 kHz, 12-03, 1354 UTC, RFSM-8000  
 17440 kHz, 12-03, 1321 UTC, RFSM-8000  
 14755 kHz, 13-03, 0922 UTC, RFSM-8000  
 18455 kHz, 13-03, 1357 UTC, RFSM-8000  
 17440 kHz, 13-03, 1322 UTC, RFSM-8000  
 9375 kHz, 16-03, 0827 UTC, RFSM-8000  
 14755 kHz, 16-03, 0925 UTC, RFSM-8000  
 13365 kHz, 16-03, 1325 UTC, RFSM-8000  
 17440 kHz, 16-03, 1324 UTC, RFSM-8000  
 18455 kHz, 16-03, 1356 UTC, RFSM-8000  
 14755 kHz, 17-03, 0931 UTC, RFSM-8000  
 13365 kHz, 17-03, 1328 UTC, RFSM-8000  
 17440 kHz, 17-03, 1324 UTC, RFSM-8000  
 18455 kHz, 17-03, 1357 UTC, RFSM-8000  
 14755 kHz, 18-03, 0925 UTC, RFSM-8000  
 18455 kHz, 18-03, 1356 UTC, RFSM-8000  
 14755 kHz, 20-03, 0921 UTC, RFSM-8000  
 13365 kHz, 20-03, 1035 UTC, RFSM-8000  
 17440 kHz, 20-03, 1325 UTC, RFSM-8000  
 18455 kHz, 20-03, 1355 UTC, RFSM-8000  
 14755 kHz, 27-03, 0919 UTC, RFSM-8000

## ***Diplomatic stations: Egypt***

14621.7 kHz, 05-03, 0657 UTC, SITOR-A 100/170  
14623.7 kHz, 06-03, 1147 UTC, SITOR-A 100/170  
14622.0 kHz, 06-03, 1149 UTC, CODAN  
14623.7 kHz, 08-03, 0822 UTC, SITOR-A 100/170  
14623.7 kHz, 08-03, 0843 UTC, SITOR-A 100/170  
14623.7 kHz, 08-03, 0903 UTC, SITOR-A 100/170  
14623.7 kHz, 10-03, 0910 UTC, SITOR-A 100/170  
14623.7 kHz, 10-03, 0919 UTC, SITOR-A 100/170  
19806.7 kHz, 11-03, 1234 UTC, SITOR-A 100/170  
14356.7 kHz, 11-03, 1244 UTC, SITOR-A 100/170  
14355.0 kHz, 11-03, 1245 UTC, CODAN  
20056.7 kHz, 11-03, 1338 UTC, SITOR-A 100/170  
20055.0 kHz, 11-03, 1338 UTC, CODAN  
18056.7 kHz, 11-03, 1447 UTC, SITOR-A 100/170  
18055.0 kHz, 11-03, 1448 UTC, CODAN  
18051.7 kHz, 12-03, 1413 UTC, SITOR-A 100/170  
18050.0 kHz, 12-03, 1428 UTC, CODAN  
18051.7 kHz, 12-03, 1458 UTC, SITOR-A 100/170  
20056.7 kHz, 12-03, 1508 UTC, SITOR-A 100/170  
18051.7 kHz, 16-03, 1202 UTC, SITOR-A 100/170  
18026.7 kHz, 28-03, 0938 UTC, SITOR-A 100/170  
16026.7 kHz, 28-03, 0938 UTC, SITOR-A 100/170  
18025.0 kHz, 28-03, 1006 UTC, CODAN

MFA Cairo clg TVQX: Egyptian embassy Tehran  
MFA Cairo clg OOVX: Egyptian embassy Ankara  
99901: MFA Cairo wkg 44401> Egyptian embassy Ankara  
MFA Cairo clg TVQX: Egyptian embassy Tehran  
MFA Cairo clg TVQX: Egyptian embassy Tehran  
MFA Cairo clg TVQX: Egyptian embassy Tehran  
MFA Cairo clg TVQX: Egyptian embassy Tehran (off 0917z)  
MFA Cairo clg TVQX: Egyptian embassy Tehran  
MFA Cairo clg KKXT: Egyptian embassy Nairobi  
MFA Cairo clg QQTIX: Egyptian embassy Prague  
99903: MFA Cairo wkg 22201: Egyptian embassy Prague  
MFA Cairo clg KKVA: Egyptian embassy Lagos  
99901: MFA Cairo wkg 33309: Egyptian embassy Lagos  
Unid Egyptian embassy clg SSTB: MFA Cairo  
Unid Egyptian embassy wkg MFA Cairo  
MFA Cairo clg TVQX: Egyptian embassy Tehran  
99901: MFA Cairo wkg 44405: Egyptian embassy Islamabad  
MFA Cairo clg OOVX: Egyptian embassy New Delhi  
MFA Cairo msg to KKVE: Egyptian embassy Bamako  
Egyptian diplo i.p. PDKJ KDDR ODSW KB RGK WDSF HUXD KY KY  
Unid Egyptian embassy clg SSTO: MFA Cairo (QSX 16025 kHz)  
MFA Cairo wkg unid embassy on 18025 kHz  
Unid embassy wkg 99903: MFA Cairo followed by CODAN traffic

## ***Diplomatic stations: North Korea***

13100 kHz, 01-03, 0830 UTC, DPRK ARQ 600/600 LSB  
13120 kHz, 02-03, 0847 UTC, DPRK ARQ 1200/600 LSB  
19130 kHz, 05-03, 0708 UTC, DPRK ARQ 1200/600 LSB  
16252 kHz, 06-03, 0748 UTC, DPRK-ARQ 600/600 LSB  
14300 kHz, 06-03, 0753 UTC, DPRK-ARQ 600/600 LSB  
13800 kHz, 06-03, 0754 UTC, DPRK-ARQ 600/600 LSB  
16252 kHz, 06-03, 0800 UTC, DPRK-ARQ 600/600 LSB  
14450 kHz, 06-03, 0940 UTC, DPRK-ARQ 600/600 LSB  
11045 kHz, 06-03, 1206 UTC, DPRK-ARQ 600/600 LSB  
18650 kHz, 06-03, 1228 UTC, DPRK-ARQ 1200/600 LSB  
15555 kHz, 06-03, 1409 UTC, DPRK-ARQ 1200/600 LSB

DPRK embassy Moscow wkg DPRK embassy Warsaw  
DPRK embassy Rome wkg DPRK embassy Moscow  
DPRK embassy Moscow wkg DPRK embassy Prague  
DPRK embassy Moscow wkg DPRK Permanent Mission to the UN, Geneva  
DPRK embassy Moscow wkg DPRK embassy Sofia  
Unid DPRK embassy wkg DPRK embassy Moscow  
DPRK embassy Moscow wkg DPRK embassy Sofia  
Unid DPRK embassy wkg DPRK embassy Moscow  
DPRK embassy Moscow wkg DPRK embassy Stockholm  
DPRK embassy Rome wkg DPRK embassy Moscow  
Unid DPRK embassy wkg DPRK embassy Moscow

11045 kHz, 06-03, 1432 UTC, DPRK-ARQ 1200/600 LSB

DPRK embassy Moscow msg 533 to DPRK embassy Stockholm  
31702 22539 38658 40093 90232 73723 96033 39387 79392 72342  
32395 03432 75714 76125 42331 45855 63691 71450 55636 91759  
69343 73412 73723 55139 01325 53917 12423 33721 06722 03770  
76720 14713 21136 53740 83872 55554 69573 71159 08695 73711  
59083 00944 11643 44631 76341 80744 32120 23772 44323 20238  
07604 32120 23772 44321 20237 72193 03871 30550 93387 13550  
93038 71301 51006 40080 15939 63256 63563 76702 39364 21134  
20223 76011 34203 23836 00320 33745 83032 03734 49140 32033  
34491 46407 01431 45538 11295 62239 04052 57406 87045 33965  
01207 65390 81914 26761 50241 32378 02436 73891 43202 43673  
61432 02436 73614 32024 36336 14323 33873 41669 11085 77543  
30173 96005 46423 87396 00544 42387 66223 64115 74072 12478  
52387 12394 52236 78035 00376 34573 77064 08063 00632 42373  
21045 18303 82304 59183 03823 36263 13893 30153 07237 37073  
35066 36703 60937 32672 03563 89763 23203 24626 34626 54230  
20072 32393 87637 15932 39387 63715 97760 37615 24471 73246  
70621 63221 55030 01423 20130 26313 00177 33662 26804 32354  
02410 17375 17735 62045 87378 70387 60502 60970 38760 50260

17038 76050 26097 03876 05026 09703 87605 02609 66180 43438  
63916 57097 63749 38384 92230 39610 12397 10309 36701 20834  
30317 14493 93215 11655 23605 39124 23295 90339 12401 29423  
91242 32959 03386 24256 63434 34067 91605 38739 63676 08323  
43478 66550 93539 28334 31239 28334 31246 38631 17337 33214  
61389 30644 25536 54344 93493 58371 53454 97852 57319 28213  
95310 55335 36402 33340 53139 33340 53106 20502 41005 20605  
64454 37060 23395 12327 79315 71353 64262 09573 53642 62095  
53536 42620 95725 34433 89295 53221 56184 55635 37322 54608  
06371 13405 30235 56521 32048 71473 22020 03323 46474 39033  
23464 74323 96533 62024 28377 60667 17366 23250 46323 89372  
77762 74083 72777 62760 83203 45734 13203 65734 17566 20347  
53578 73787 22152 63363 89205 37849 72501 31214 97250 13121  
20413 03593 08202 05910 15243 66730 97727 57193 91739 10206  
53836 13225 57114 42169 23411 93052 17334 65443 06455 59751  
20835 49612 43013 54961 24301 23363 57733 46761 49404 13232  
81469 70346 35094 05236 38552 82118 20433 62733 96237 41735  
93346 12942 62948 34962 32357 13930 44260 65434 57812 10414  
67568 23621 83965 39727 57554 20643 21332 35206 43213 32752  
06431 33235 20643 21332 35377 23401 46073 77724 23333 42394  
72849 44443 33611 62517 23609 59443 87646 61134 19360 31673  
65572 67352 31368 03357 93221 37387 52362 42021 66223 64168  
34745 44385 73217 35320 23466 91469 08670 11928 53792 64038  
60626 40633 72034 35334 73625 06437 39716 44347 17333 27389  
26333 64711 06815 23242 47074 28203 53732 36603 76515 29676  
73667 15493

14450 kHz, 12-03, 0949 UTC, DPRK-ARQ 600/600 LSB  
14350 kHz, 12-03, 0949 UTC, DPRK-ARQ 600/600 LSB  
14350 kHz, 13-03, 0818 UTC, DPRK-ARQ 600/600 LSB  
14300 kHz, 18-03, 0720 UTC, DPRK-ARQ 600/600 LSB  
24120 kHz, 18-03, 0935 UTC, DPRK-ARQ 1200/600 LSB  
14300 kHz, 20-03, 1326 UTC, DPRK-ARQ 600/600 LSB

DPRK embassy Warszaw wkg DPRK embassy Moscow  
DPRK embassy Moscow wkg DPRK embassy Warszaw  
DPRK embassy Moscow wkg DPRK embassy Warszaw  
DPRK embassy Moscow wkg DPRK embassy Sofia  
DPRK embassy Rome wkg DPRK embassy Moscow  
DPRK embassy Moscow msg 640, 124 groups to DPRK embassy Sofia  
47646 27341 19666 54800 76477 96164 41537 48084 99764 83789  
39983 20202 72614 89904 46276 13638 10280 93940 15448 53941  
64361 63229 53975 12324 45824 94224 17763 97506 57563 80847  
34831 49414 12319 41205 11431 10744 44996 83122 09606 75193  
40037 98419 96095 01899 86150 86057 89257 74820 79730 21237  
28267 32733 01205 83332 53317 45417 27830 98440 22787 75177  
15924 15775 63156 79071 86344 07136 29429 61931 58295 14369  
60775 63118 29313 11341 12051 43878 42819 56283 43960 85078  
86088 31478 61780 45226 24393 05610 77422 76490 14554 19497  
92966 62612 09730 96220 81716 27832 37669 52932 90978 91218  
91825 81094 07366 70196 96798 15960 81645 60442 01002 47784  
43110 02164 50125 71053 80300 88894 85807 12990 15112 59254  
33149 41884 34161 33087

11050 kHz, 23-03, 1226 UTC, DPRK-ARQ 600/600 LSB  
11130 kHz, 24-03, 1206 UTC, DPRK-ARQ 600/600 LSB  
14150 kHz, 24-03, 1304 UTC, DPRK-ARQ 600/600 LSB  
14150 kHz, 24-03, 1335 UTC, DPRK-ARQ 600/600 LSB  
14150 kHz, 25-03, 0715 UTC, DPRK-ARQ 600/600 LSB  
13800 kHz, 25-03, 0720 UTC, DPRK-ARQ 600/600 LSB  
14150 kHz, 25-03, 0715 UTC, DPRK-ARQ 600/600 LSB  
13800 kHz, 25-03, 0720 UTC, DPRK-ARQ 600/600 LSB  
11090 kHz, 27-03, 0804 UTC, DPRK-ARQ 600/600 LSB  
11850 kHz, 28-03, 1449 UTC, DPRK-ARQ 600/600 LSB

Unid DPRK-ARQ embassy wkg DPRK embassy Moscow  
Unid DPRK embassy wkg DPRK embassy Moscow  
DPRK embassy Moscow wkg DPRK Permanent Mission to the UN, Geneva  
Unid DPRK embassy wkg DPRK embassy Moscow  
DPRK embassy Moscow wkg DPRK embassy Prague  
DPRK embassy Moscow wkg DPRK Permanent Mission to the UN, Geneva  
DPRK embassy Moscow wkg DPRK embassy Prague  
DPRK embassy Moscow wkg DPRK Permanent Mission to the UN, Geneva  
Unid DPRK embassy wkg DPRK embassy Moscow  
Unid DPRK embassy wkg DPRK embassy Moscow

## Diplomatic stations: Russia

12146 kHz, 02-03, 0830 UTC, MFSK-66  
15989 kHz, 03-03, 0750 UTC, MFSK-6  
17454 kHz, 03-03, 0838 UTC, MFSK-6  
14631 kHz, 04-03, 0908 UTC, MFSK-66

Russian diplo  
MFA Moscow clg 125643: Russian embassy Ulaanbaatar  
MFA Moscow clg 325614: Russian embassy Nairobi  
Russian diplo

|                                         |                                                                               |
|-----------------------------------------|-------------------------------------------------------------------------------|
| 14634 kHz, 04-03, 0919 UTC, MFSK-66     | Russian diplo                                                                 |
| 20374 kHz, 04-03, 1220 UTC, MFSK-6      | MFA Moscow clg 231654: Russian embassy Abuja                                  |
| 15819 kHz, 04-03, 0750 UTC, MFSK-6      | MFA Moscow clg 256341: Russian embassy Beirut                                 |
| 13448 kHz, 05-03, 0826 UTC, MFSK-6      | MFA Moscow clg 162543: Russian embassy Nicosia                                |
| 14569 kHz, 06-03, 0924 UTC, MFSK-66     | Russian diplo                                                                 |
| 17364 kHz, 06-03, 0931 UTC, MFSK-66     | Russian diplo                                                                 |
| 14570 kHz, 06-03, 0928 UTC, MFSK-6      | MFA Moscow clg 324615: Russian embassy Madrid                                 |
| 13393 kHz, 06-03, 1349 UTC, MFSK-66     | Russian diplo                                                                 |
| 16257 kHz, 10-03, 0806 UTC, MFSK-6      | MFA Moscow clg 542136: Russian embassy Beijing                                |
| 17470 kHz, 10-03, 1001 UTC, MFSK-6      | MFA Moscow clg 216354: Russian Consulate General Chennai                      |
| 13420 kHz, 10-03, 0821 UTC, MFSK-6      | MFA Moscow clg 534216: Russian embassy Baghdad                                |
| 11545 kHz, 10-03, 0830 UTC, MFSK-6      | MFA Moscow clg 534216: Russian embassy Baghdad                                |
| 16117 kHz, 10-03, 1617 UTC, MFSK-6      | MFA Moscow clg 643125: Russian embassy Rabat                                  |
| 16117 kHz, 13-03, 0956 UTC, MFSK-6      | MFA Moscow clg 463125: Russian embassy Rabat                                  |
| 13471 kHz, 13-03, 1012 UTC, MFSK-66     | Russian diplo                                                                 |
| 12122 kHz, 16-03, 0755 UTC, MFSK-66     | Russian intel.                                                                |
| 13520 kHz, 16-03, 0824 UTC, MFSK-66     | Russian intel.                                                                |
| 14377 kHz, 16-03, 0830 UTC, MFSK-6      | MFA Moscow clg 432516: Russian embassy Bern                                   |
| 14615 kHz, 17-03, 0742 UTC, MFSK-6      | MFA Moscow clg 125643: Russian embassy Ulaanbataar                            |
| 14358 kHz, 17-03, 0919 UTC, MFSK-66     | Russian diplo                                                                 |
| 18460 kHz, 17-03, 0933 UTC, MFSK-66     | Russian diplo                                                                 |
| 14454 kHz, 18-03, 0712 UTC, Serdolik v2 | Russian diplo. Selcal                                                         |
| 14454 kHz, 18-03, 0716 UTC, Serdolik v2 | Russian diplo. Selcal                                                         |
| 14454 kHz, 18-03, 0719 UTC, Serdolik v2 | Russian diplo. Selcal                                                         |
| 14454 kHz, 18-03, 0723 UTC, Serdolik v2 | Russian diplo. Selcal                                                         |
| 14454 kHz, 18-03, 0726 UTC, Serdolik v2 | Russian diplo. Selcal                                                         |
| 14452 kHz, 18-03, 0729 UTC, Serdolik v2 | Russian diplo                                                                 |
| 14405 kHz, 18-03, 0736 UTC, MFSK-6      | MFA Moscow clg 256341: Russian embassy Beirut                                 |
| 14452 kHz, 18-03, 0740 UTC, Serdolik v2 | Russian diplo                                                                 |
| 14416 kHz, 20-03, 1013 UTC, Serdolik v2 | Russian diplo                                                                 |
| 12199 kHz, 16-03, 0900 UTC, MFSK-6      | MFA Moscow clg 532614: Russian embassy Paris                                  |
| 19858 kHz, 16-03, 0752 UTC, MFSK-6      | MFA Moscow clg 351264: Russian embassy Abu Dhabi                              |
| 16103 kHz, 19-03, 0935 UTC, MFSK-6      | MFA Moscow clg 645321: Russian Consulate General Ho Chi Minh City             |
| 14824 kHz, 20-03, 1019 UTC, MFSK-6      | MFA Moscow clg 521634: Russian embassy Tel Aviv                               |
| 14521 kHz, 24-03, 1156 UTC, OFDM-45/112 | Russian diplo                                                                 |
| 12223 kHz, 24-03, 1651 UTC, OFDM-45/112 | Russian diplo                                                                 |
| 13425 kHz, 24-03, 1652 UTC, OFDM-45/112 | Russian diplo                                                                 |
| 14434 kHz, 24-03, 1742 UTC, OFDM-45/112 | Russian diplo                                                                 |
| 14871 kHz, 23-03, 0808 UTC, MFSK-6      | MFA Moscow clg 156234: Russian embassy Kampala                                |
| 17470 kHz, 24-03, 1030 UTC, MFSK-6      | MFA Moscow clg 216354: Russian Consulate General Chennai                      |
| 20334 kHz, 25-03, 0743 UTC, MFSK-6      | MFA Moscow clg 164253: Russian embassy Addis Ababa                            |
| 12125 kHz, 26-03, 0745 UTC, MFSK-66     | Russian diplo                                                                 |
| 14419 kHz, 26-03, 0751 UTC, MFSK-6      | MFA Moscow clg 521634: Russian embassy Bucharest                              |
| 13512 kHz, 26-03, 0753 UTC, Serdolik v2 | Russian diplo                                                                 |
| 14450 kHz, 26-03, 0805 UTC, MFSK-6      | MFA Moscow clg 153624: Russian embassy Damascus (off at 0807z, back at 0808z) |
| 14916 kHz, 26-03, 0808 UTC, OFDM-45/112 | Russian diplo                                                                 |
| 16153 kHz, 26-03, 0816 UTC, MFSK-6      | MFA Moscow clg 153624: Russian embassy Damascus                               |
| 14695 kHz, 27-03, 0737 UTC, MFSK-6      | MFA Moscow clg 341265 Unid                                                    |
| 10431 kHz, 27-03, 0920 UTC, MFSK-66     | Russian diplo                                                                 |
| 10653 kHz, 27-03, 0926 UTC, MFSK-6      | MFA Moscow clg 356412: Russian embassy Berlin                                 |
| 17538 kHz, 28-03, 0733 UTC, Serdolik v2 | Russian diplo                                                                 |

## ***Diplomatic stations: Tunisia***

|                                              |                                                                                          |
|----------------------------------------------|------------------------------------------------------------------------------------------|
| 26890 kHz, 05-03, 0641 UTC, Mil-STD-188-141A | STAT16: Embassy Riyadh clg STAT155 MFA Tunis                                             |
| 19675 kHz, 05-03, 0650 UTC, Mil-STD-188-141A | STAT11: Embassy Amman clg STAT155 MFA Tunis                                              |
| 18295 kHz, 10-03, 0737 UTC, Mil-STD-188-141A | STAT5: Unid Tunisian embassy clg STAT154: MFA Tunis                                      |
| 18295 kHz, 10-03, 0739 UTC, Mil-STD-188-141A | STAT16: Unid Tunisian embassy clg STAT155: MFA Tunis                                     |
| 18295 kHz, 10-03, 0739 UTC, Mil-STD-188-141A | STAT155: MFA Tunis ack call of STAT16: unid embassy followed by Mil-STD-188-110A traffic |
| 18295 kHz, 10-03, 0759 UTC, Mil-STD-188-141A | STAT155: MFA Tunis clg STAT13: Tunisian embassy Cairo                                    |
| 23540 kHz, 09-03, 0757 UTC, Mil-STD-188-141A | STAT11: Tunisian embassy Amman sounding                                                  |



19675 kHz, 09-03, 0758 UTC, Mil-STD-188-141A  
23540 kHz, 09-03, 1018 UTC, Mil-STD-188-141A  
23540 kHz, 11-03, 0718 UTC, Mil-STD-188-141A  
18295 kHz, 12-03, 0608 UTC, Mil-STD-188-141A  
18295 kHz, 12-03, 0624 UTC, Mil-STD-188-141A  
18295 kHz, 12-03, 0727 UTC, Mil-STD-188-141A  
18295 kHz, 12-03, 0753 UTC, Mil-STD-188-141A  
18295 kHz, 19-03, 0736 UTC, Mil-STD-188-141A  
18295 kHz, 19-03, 0757 UTC, Mil-STD-188-141A

18295 kHz, 19-03, 0736 UTC, Mil-STD-188-141A  
18295 kHz, 19-03, 0757 UTC, Mil-STD-188-141A

STAT11: Tunisian embassy Amman clg STAT155 MFA Tunis  
STAT151: MFA Tunis sounding  
STAT12: Tunisian embassy Ankara clg STAT151 MFA Tunis  
STAT12: Tunisian embassy Ankara clg STAT151: MFA Tunis  
STAT11: Tunisian embassy Amman clg STAT155: MFA Tunis  
STAT5: Unid Tunisian embassy clg STAT154: MFA Tunis  
STAT154: MFA Tunis clg STAT5: Unid Tunisian embassy  
STAT11: Tunisian embassy Amman clg STAT155: MFA Tunis  
STAT5: Unid Tunisian embassy clg STAT154: MFA Tunis followed by  
Mil-STD-188-110A traffic  
STAT11: Tunisian embassy Amman clg STAT155: MFA Tunis  
STAT5: Unid Tunisian embassy clg STAT154: MFA Tunis followed by  
Mil-STD-188-110A traffic

## Diplomatic stations: U.S.A.

Note the encrypted CMD AMD messages.

18248.6 kHz, 02-03, 0635 UTC, Mil-STD-188-141A  
20810.6 kHz, 02-03, 0939 UTC, Mil-STD-188-141A  
6902.6 kHz, 03-03, 0852 UTC, Mil-STD-188-141A  
8058.6 kHz, 03-03, 0853 UTC, Mil-STD-188-141A  
10733.6 kHz, 04-03, 1612 UTC, Mil-STD-188-141A  
11168.6 kHz, 04-03, 1733 UTC, Mil-STD-188-141A  
11168.6 kHz, 05-03, 0822 UTC, Mil-STD-188-141A  
8058.6 kHz, 05-03, 0823 UTC, Mil-STD-188-141A  
8248.6 kHz, 05-03, 1009 UTC, Mil-STD-188-141A  
11168.6 kHz, 05-03, 1155 UTC, Mil-STD-188-141A  
20810.6 kHz, 05-03, 1159 UTC, Mil-STD-188-141A  
18248.6 kHz, 10-03, 1239 UTC, Mil-STD-188-141A:

[CMD AMD] ^: P,\ID!0;W-T(&ES(&-O;F1U8W1!;F<@<F%D:6\@=&5S="!P;&5A<V4@<F5S<&]N9"!W:71H(&UE<W-A9V4@{(S

13506.6 kHz, 10-03, 1240 UTC, Mil-STD-188-141A

[CMD AMD] ^: P,\ID!0;W-T(&ES(&-O;F1U8W1!%D:&]N9"!W:71H(&UE<W-A9V4@{(

13506.6 kHz, 10-03, 1241 UTC, Mil-STD-188-141A

[CMD AMD] ^: P,4S2%2861I;R!#:&5C:R!296-E:79E9

13503.6 kHz, 10-03, 1306 UTC, Mil-STD-188-141A

5748.6 kHz, 11-03, 0810 UTC, Mil-STD-188-141A

[CMD AMD] ^: P,\\$>],971S('1R>2!A9V%I;B!T:&ES(&UO<FYI;F<@96%R;'DL=V4G<F4@1G)A;FMF=7)T(')!;6,@2U="-#@

8058.6 kHz, 11-03, 0939 UTC, Mil-STD-188-141A

11168.6 kHz, 11-03, 1304 UTC, Mil-STD-188-141A

06902.6 kHz, 11-03, 1317 UTC, Mil-STD-188-141A

10733.6 kHz, 11-03, 1318 UTC, Mil-STD-188-141A

11168.6 kHz, 28-03, 1351 UTC, Mil-STD-188-141A

8058.6 kHz, 30-03, 1215 UTC, Mil-STD-188-141A

16283.6 kHz, 30-03, 1009 UTC, Mil-STD-188-141A

20810.6 kHz, 30-03, 1348 UTC, Mil-STD-188-141A

20810.6 kHz, 30-03, 1409 UTC, Mil-STD-188-141A

24883.6 kHz, 30-03, 1417 UTC, Mil-STD-188-141A

20810.6 kHz, 31-03, 0852 UTC, Mil-STD-188-141A

20810.6 kHz, 31-03, 0920 UTC, Mil-STD-188-141A

20810.6 kHz, 31-03, 1120 UTC, Mil-STD-188-141A

KWS98: US Embassy Bucharest

KWX59: US Embassy

KWT91: US Embassy Berlin

KWB48: RIMC Frankfurt [CMD AMD][^: P,)^?=#;W!Y(2 V,R4]

KWS92: US Embassy Zagreb clg KWS93 US Embassy Belgrade

KWS92: US Embassy Zagreb clg EUR9 UNID

KWS78: US Embassy Bratislava

KWS78: US Embassy Bratislava

KWS95: US Embassy Tirana

KWT98: US Embassy Bern

KWP98: US Embassy Tunis

KWW25: US embassy Oslo clg K VX53 Embassy Vilnius

KWW25: US embassy Oslo clg K VX53 Embassy Vilnius

KWX53: US embassy Vilnius clg KWW25 Embassy Oslo

KWB48: RIMC Frankfurt sounding

KWB48: RIMC Frankfurt clg K VX54 Embassy Riga

KWB48: RIMC Frankfurt clg K VX54 Embassy Riga

KXV45: US embassy Rome clg KWA43 Consulate General Milan

KXV45: US embassy Rome sounding

KXV45: US embassy Rome clg KWA43 Consulate General Milan

KVX56: US embassy Helsinki sounding

KWS95: US embassy, Tirana sounding

KWA22: US Consulate Ponta Delgada sounding

KFB90: US embassy, Dakar sounding

KWP95: US embassy, Rabat clg KWA22: US consulate, Ponta Delgada

KWP97: US embassy Algiers sounding

KWA22: US consulate, Ponta Delgada clg KFB90: US embassy, Dakar

KWK42: US embassy, Nouakchott clg KFB90: US embassy, Dakar

KWJ34: Unid US embassy clg KFB90: US embassy, Dakar



## SPECIAL PURPOSE RADIO STATIONS

### Radio war

|                                 |                                                                  |
|---------------------------------|------------------------------------------------------------------|
| 7056 kHz, 01-03, 0744 UTC, LSB  | Insulting anti Putin/Russia song                                 |
| 7055 kHz, 01-03, 1735 UTC, LSB  | Insulting anti Putin/Russia messages                             |
| 14131 kHz, 02-03, 1533 UTC, USB | Insulting anti Putin/Russia song                                 |
| 7056 kHz, 03-03, 1718 UTC, LSB  | Insulting anti Putin/Russia song                                 |
| 7055 kHz, 06-03, 1719 UTC, LSB  | Anti Russia broadcast                                            |
| 7057 kHz, 12-03, 1654 UTC, LSB  | Anti Russia/Putin song                                           |
| 14110 kHz, 14-03, 1130 UTC, USB | Insulting anti Putin/Russia song                                 |
| 7053.7 kHz, 14-03, 1530 UTC, CW | Message with offensive text about Putin, Trump, Orban and Russia |
| 7055 kHz, 15-03, 1545 UTC, LSB  | Various stations on top of each other                            |
| 14125 kHz, 27-03, 1515 UTC, LSB | Troll with loop transmissions                                    |
| 7055 kHz, 27-03, 1612 UTC, LSB  | Two stations yelling on top of each other                        |

### Russian stations related to the Ukrainian war. Possibly PSYOP and/or propaganda

|                            |                                                                          |
|----------------------------|--------------------------------------------------------------------------|
| 5260 kHz, 01-03, 1940 UTC  | Russian music loop                                                       |
| 6250 kHz, 01-03, 1940 UTC  | Russian music loop                                                       |
| 4141 kHz, 01-03, 1756 UTC  | Pip                                                                      |
| 4141 kHz, 03-03, 1720 UTC  | Pip                                                                      |
| 6250 kHz, 04-03, 1744 UTC  | Russian music loop                                                       |
| 5260 kHz, 04-03, 1744 UTC  | Russian music loop                                                       |
| 4141 kHz, 04-03, 1744 UTC  | Russian music loop                                                       |
| 6828 kHz, 04-03, 1800 UTC  | Popular version of Russia's national anthem //6911, 7546, 7649, 9310 kHz |
| 4141 kHz, 06-03, 1720 UTC  | Pip                                                                      |
| 6250 kHz, 10-03, 2136 UTC  | Russian music loop                                                       |
| 5260 kHz, 10-03, 2136 UTC  | Russian music loop                                                       |
| 4141 kHz, 10-03, 2137 UTC  | Pip                                                                      |
| 18459 kHz, 11-03, 0935 UTC | Pip                                                                      |
| 18429 kHz, 12-03, 0600 UTC | Pip                                                                      |
| 4141 kHz, 12-03, 1655 UTC  | Pip                                                                      |
| 18429 kHz, 12-03, 1655 UTC | Pip                                                                      |
| 6250 kHz, 12-03, 1929 UTC  | Russian music loop                                                       |
| 5260 kHz, 12-03, 1929 UTC  | Russian music loop                                                       |
| 18429 kHz, 13-3, 0600 UTC  | Pip                                                                      |
| 6828 kHz, 13-03, 0601 UTC  | Popular version of Russia's national anthem //6911, 7649, 9310 kHz       |
| 4141 kHz, 13-03, 1745 UTC  | Pip                                                                      |
| 4141 kHz, 14-03, 1736 UTC  | Pip                                                                      |
| 6828 kHz, 16-03, 1800 UTC  | Popular version of Russia's national anthem //6911, 7546, 7649, 9310 kHz |
| 4141 kHz, 16-03, 1800 UTC  | Pip                                                                      |
| 6828 kHz, 18-03, 1800 UTC  | Popular version of Russia's national anthem //6911, 7546, 7649, 9310 kHz |
| 6250 kHz, 18-03, 1800 UTC  | Russian music loop                                                       |
| 5260 kHz, 18-03, 1800 UTC  | Russian music loop                                                       |
| 4141 kHz, 18-03, 1800 UTC  | Pip                                                                      |
| 6250 kHz, 20-03, 1830 UTC  | Russian music loop                                                       |
| 5260 kHz, 20-03, 1830 UTC  | Russian music loop                                                       |
| 6250 kHz, 31-03, 1905 UTC  | Russian music loop                                                       |
| 5260 kHz, 31-03, 1905 UTC  | Russian music loop                                                       |

### Jammed radio stations

|                            |                            |
|----------------------------|----------------------------|
| 7490 kHz, 01-03, 1730 UTC  | Radio Farda jammed by Iran |
| 13755 kHz, 01-03, 1650 UTC | Radio Farda jammed by Iran |
| 13755 kHz, 02-03, 1450 UTC | Radio Farda jammed by Iran |
| 7470 kHz, 02-03, 1648 UTC  | Radio Farda jammed by Iran |
| 7490 kHz, 03-03, 1710 UTC  | Radio Farda jammed by Iran |
| 7520 kHz, 03-03, 1710 UTC  | Radio Farda jammed by Iran |

|                            |                                                                                                        |
|----------------------------|--------------------------------------------------------------------------------------------------------|
| 13755 kHz, 03-03, 1710 UTC | Radio Farda jammed by Iran                                                                             |
| 7520 kHz, 05-03, 1800 UTC  | Radio Farda jammed by Iran                                                                             |
| 7495 kHz, 05-03, 1845 UTC  | Radio Farda jammed by Iran                                                                             |
| 7520 kHz, 06-03, 1645 UTC  | Radio Farda jammed by Iran                                                                             |
| 7490 kHz, 06-03, 1705 UTC  | Radio Farda jammed by Iran                                                                             |
| 13755 kHz, 13-03, 1612 UTC | Radio Farda jammed by Iran                                                                             |
| 7490 kHz, 13-03, 1707 UTC  | Radio Farda jammed by Iran                                                                             |
| 13755 kHz, 14-03, 1526 UTC | Radio Farda jammed by Iran                                                                             |
| 7490 kHz, 14-03, 1749 UTC  | Radio Farda jammed by Iran                                                                             |
| 13755 kHz, 15-03, 1538 UTC | Radio Farda jammed by Iran                                                                             |
| 7490 kHz, 18-03, 1800 UTC  | Radio Farda jammed by Iran                                                                             |
| 9365 kHz, 24-03, 1730 UTC  | Radio Farda jammed by Iran                                                                             |
| 7505 kHz, 24-03, 1730 UTC  | Radio Farda jammed by Iran                                                                             |
| 7520 kHz, 25-03, 1700 UTC  | Radio Farda jammed by Iran                                                                             |
| 9360 kHz, 28-03, 1710 UTC  | Radio Farda jammed by Iran                                                                             |
|                            |                                                                                                        |
| 12110 kHz, 02-03, 1450 UTC | Radio Iran International jammed by Iran                                                                |
| 17900 kHz, 02-03, 1520 UTC | Radio Iran International NOT jammed this time                                                          |
| 15750 kHz, 07-03, 1000 UTC | Radio Iran International jammed by Iran                                                                |
| 15750 kHz, 13-03, 1700 UTC | Radio Iran International jammed by Iran                                                                |
| 15750 kHz, 14-03, 1120 UTC | Iranian jammer. Radio Iran International moved to 15730 kHz                                            |
| 15730 kHz, 17-03, 1415 UTC | Radio Iran International jammed by Iran                                                                |
|                            |                                                                                                        |
| 13470 kHz, 14-03, 1120 UTC | Jammer, probably from China                                                                            |
| 9660 kHz, 15-03, 1541 UTC  | Chinese jammer                                                                                         |
| 7470 kHz, 15-03, 1543 UTC  | Voice of America jammed by Iran                                                                        |
| 7470 kHz, 17-03, 1426 UTC  | Voice of America jammed by Iran                                                                        |
| 7265 kHz, 19-03, 1445 UTC  | Unid western oldies music program. Popeye interval signal. Jammed by a siren jammer and another jammer |
| 9363 kHz, 21-03, 1623 UTC  | Iranian jammer. No other station on this frequency                                                     |
| 7480 kHz, 26-03, 1720 UTC  | Voice of America jammed by Iran                                                                        |
| 9365 kHz, 26-03, 1738 UTC  | Iranian jammer. No other station on this frequency                                                     |
| 7470 kHz, 27-03, 1615 UTC  | Voice of America jammed by Iran                                                                        |
| 7515 kHz, 29-03, 1715 UTC  | Broadcast jammed by Iran. Probably VoA                                                                 |

V32 was daily jammed by Iran and a 3-carrier jammer at 0200 and 1800 UTC on 7842 and 7910 kHz

## Pirate stations

### 6800 kHz, 12-03, 1025 UTC, CW. Pirate station

VVV DE SWPIRATE SWPIRATE SWPIRATE SEND SIGNAL REPORT TO [SW6800KHZ@OUTLOOK.COM](mailto:SW6800KHZ@OUTLOOK.COM)

After I received an email about a possible new numbers station, I forwarded it to the Priyom Team. They also copied it and monitored it for a couple of days. Here is their report:

*After the "tabela" numbers station came to our attention, we tracked that activity on the air back to two days earlier where it might have started. And some find that that was the best part of it.*

### 12 March

|                          |                                                                                                                                                |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| 2111z, 3925 kHz, J3E USB | up until 2123z (waterfall only)                                                                                                                |
| 2123z, 3878 kHz, J3E USB | _Kto tu jest Niewinny_ 1985 song by Małgorzata Panecka - <a href="https://youtu.be/Etq7kzd3kb4">https://youtu.be/Etq7kzd3kb4</a> - until 2136z |

*What's interesting here, is that this song was recorded and first aired on the radio in 1985, but through some lost media story, only got commercially released on 2026-02-27, and then uploaded to YouTube on 2026-03-10, just 2 days before the pirate played it on shortwave. Extremely fresh.*

*The next day we saw the pirate also play with a Pip-like marker, and we heard his voice on the air!*

### 13 March

|                          |                                                                                                                                                                                               |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1427z, 3878 kHz, J3E USB | Alternating between Pip-like tone, ground loop, and _Kto tu jest Niewinny_ 1985 song until 1532z                                                                                              |
| 1634z, 3878 kHz, J3E USB | Male Polish voice: "Raz-raz-raz-dwa-raz-dwa-raz. Czekaj, zaraz podłączę tam eee, pod kompa OK." English translation: "1-1-1-2-1-2-1. Wait, in a moment I'll connect, uh, to the computer OK." |
| 1636z, 3878 kHz, J3E USB | Alternating between Pip-like tone, ground loop, and _Kto tu jest Niewinny_ 1985 song until 1841z                                                                                              |



On **March 14th**, the pirate played with numbers voice samples to make his own little numbers station. That caught some attention, some people calling it "tavida", "tavina", "tavenah", "tabena"... The correct word used in the station is "tabela", which means "table" in Polish, but not the furniture: the kind of spreadsheet table you fill with numbers. The pirate went through several format variations playing with his setup. Interestingly enough, the groups didn't always have the same amount of digits in them.

|                          |                                                                                                                              |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------|
| 2018z, 3878 kHz, J3E USB | Male English number voice samples: "0, 1, 2, 3, 4, 5, 6, 7, 8, 9" until 2021z                                                |
| 2025z, 3878 kHz, J3E USB | Number groups until 2031z                                                                                                    |
| 2032z, 3878 kHz, J3E USB | "Tabela [number]" + 3 groups                                                                                                 |
| 2043z, 3878 kHz, J3E USB | Alternating between tone + "tabela" + 3 groups, and Pip-like tone, Windows 10 Foreground system sound at 210235z and 210415z |
| 2108z, 3878 kHz, J3E USB | Pip-like tone                                                                                                                |
| 2120z, 3878 kHz, J3E USB | Tone + "tabela [number]" + 3 groups until 2230z                                                                              |

Tabela 8 29565 72690 59723  
Tabela 2 044708 516310 04491  
Tabela 5 520246 703822 33495  
Tabela 1 091103 017208 10561  
Tabela 2 66784 623580 37701  
Tabela 6 010367 60773 104125  
Tabela 3 154114 02046 958352  
etc. etc.  
Tabela 9 28718 769819 758781  
Tabela 8 994817 955971 00466  
Tabela 2 26662 15796 26764  
Tabela 6 66504 79810 60835  
etc.etc.  
Ended with a long tone at 2217z

|                |                                              |
|----------------|----------------------------------------------|
| 2225z, J2E USB | New message. Ended with a long tone at 2229z |
|----------------|----------------------------------------------|

#### 15 March

|                          |                                                                                                                       |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------|
| 1411z, 3878 kHz, J3E USB | Tone + "tabela [number]" + 3 groups until 1414z (waterfall only)                                                      |
| 1501z, 3878 kHz, J3E USB | Alternating between Pip-like tone, ground loop, and tone + "tabela [number]" + 3 groups, until 1541z                  |
| 1558z, 3878 kHz, J3E USB | Alternating between Pip-like tone, ground loop, and tone + "tabela [number]" + 3 groups, until 1714z (waterfall only) |
| 1731z, 3878 kHz, J3E USB | 17159 086051 94604                                                                                                    |
| 1739x, 3878 kHz, J3E USB | 94589 67794 045273 tone, then Tabela 6, then off.                                                                     |

After that little numbers station experiment, the pirate pivoted to a short playlist of old Polish patriotic songs, and quickly settled into a pattern of short music transmissions at the top of the hour, changing frequencies a few times before settling on 3937kHz.

|                          |                                                                                                                                                                                                                 |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2022z, 3878 kHz, J3E USB | Alternating between Pip-like tone, and _My, Pierwsza Brygada_ aka _Legiony to żołnierska nuta_ 1917 Polish patriotic song - <a href="https://youtu.be/k24j4F2o9w">https://youtu.be/k24j4F2o9w</a> - until 2136z |
| 2136z, 3875 kHz, J3E USB | Music until 2145z                                                                                                                                                                                               |
| 2200z, 3875 kHz, J3E USB | Music until 2206z                                                                                                                                                                                               |

#### 16 March

|                          |                                                                                                                                     |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| 1600z, 3940 kHz, J3E USB | up until 1601z (waterfall only)                                                                                                     |
| 1601z, 3937 kHz, J3E USB | up until 1605z (waterfall only)                                                                                                     |
| 1610z, 3937 kHz, J3E USB | up until 1614z (waterfall only)                                                                                                     |
| 1616z, 3937 kHz, J3E USB | _Legiony to żołnierska nuta_ 1917 Polish patriotic song until 1617z                                                                 |
| 1700z, 3937 kHz, J3E USB | _Legiony to żołnierska nuta_ 1917 Polish patriotic song until 1708z                                                                 |
| 1900z, 3937 kHz, J3E USB | music until 1908z                                                                                                                   |
| 1930z, 3937 kHz, J3E USB | _Szara piechota_ 1918 Polish patriotic song - <a href="https://youtu.be/t815V9viQeU">https://youtu.be/t815V9viQeU</a> - until 1938z |
| 2000z, 3937 kHz, J3E USB | music until 2010z                                                                                                                   |
| 2100z, 3937 kHz, J3E USB | music until 2110z                                                                                                                   |

#### 17 March

|                          |                                 |
|--------------------------|---------------------------------|
| 1600z, 3937 kHz, J3E USB | up until 1603z                  |
| 1610z, 3937 kHz, J3E USB | up until 1615z (waterfall only) |
| 1619z, 3937 kHz, J3E USB | up until 1620z (waterfall only) |
| 1628z, 3937 kHz, J3E USB | up until 1629z (waterfall only) |

|                          |                                                                                                                                                                                                                                           |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1700z, 3937 kHz, J3E USB | up until 1710z                                                                                                                                                                                                                            |
| 1900z, 3937 kHz, J3E USB | up until 1910z (waterfall only)                                                                                                                                                                                                           |
| 2000z, 3937 kHz, J3E USB | _Legiony to żołnierska nuta_ 1917 Polish patriotic song, then _Szara piechota_ 1918 Polish patriotic song, then _Rota_ 1908 Polish patriotic song - <a href="https://youtu.be/agD1qBr-y9I">https://youtu.be/agD1qBr-y9I</a> - until 2018z |
| 2100z, 3937 kHz, J3E USB | music until 2110z                                                                                                                                                                                                                         |

#### 18 March

|                          |                                    |
|--------------------------|------------------------------------|
| 1600z, 3937 kHz, J3E USB | music until 1610z                  |
| 1700z, 3937 kHz, J3E USB | music until 1710z (waterfall only) |
| 2100z, 3937 kHz, J3E USB | music until 2110z                  |

#### 19 March

|                          |                                    |
|--------------------------|------------------------------------|
| 1500z, 3937 kHz, J3E USB | up until 1509z                     |
| 1700z, 3937 kHz, J3E USB | up until 1710z (waterfall only)    |
| 1800z, 3937 kHz, J3E USB | up until 1810z (waterfall only)    |
| 2003z, 3937 kHz, J3E USB | music, with TX issues, until 2010z |
| 2024z, 3937 kHz, J3E USB | up until 2029z (waterfall only)    |

*Apparently the transmissions stopped after that.*

*Tracking all that just because it made a numbers station one day was probably more effort than it was worth... Did I mention that we think it was just a pirate?*

On the 16<sup>th</sup> a morse test popped up on the same frequency. We are not sure if it is related to the Polish pirate station.

|                               |                                                       |
|-------------------------------|-------------------------------------------------------|
| 3878 kHz, 16-03, 0101 UTC, CW | GSWPE 12345 49635 GSWPE 12345 49635 GSWPE 12345 49635 |
|                               | EPWSG 54321 53694 EPWSG 54321 53694 EPWSG 54321 53694 |
|                               | GSWPE 12345 49635 GSWPE 12345 49635 GSWPE 12345 49635 |
|                               | EPWSG 54321 53694 EPWSG 54321 53694 EPWSG 54321 53694 |



## UTILITY ROUND-UP

#### FRO Sweden

7083 kHz, 14-03, 0835 UTC, CW i.p. THIS IS A TRANSMISSION FROM SLOFRO REPORTS TO TELEGRAFI SK FRO.SE PSE + SK

#### Unid station

14974 kHz, 24-03, 0751 UTC, MFSK-11  
14652 kHz, 27-03, 0730 UTC, MFSK-11

#### Unid 10755 kHz activity

This unid traffic was first reported by PY in February.

#### 10755 kHz, 18-02, 1228 UTC, J3E USB Russian male voice:

"1, 2, 3, 4, 5. 1, 2, 3. 1, 2, 3. [1m silence] 1, 2, 3. 1, 1, 1, 1. [30s silence] 1, 2, 3. 1, 2, 3. 1, 2, 3, 4, 5. 1, 2, 3, 4, 5. 1, 2, 3, 4, 5. Проверка, проверка. 1, 2, 3, 4, 5. Алё, алё, алё. 1, 2, 3, 4, 5. 1, 1, 1, 1. 1, 2, 3, 4, 5. Проверка, проверка, проверка. 1, 2, 3, 4, 5."

PY says: "I wouldn't have thought about it again except I found more voice on the frequency. This was during the sporadic Operator 6 event, but there is no reason to think that it must be related; nor that it is even necessarily Russian in origin."

(Note that some of these voices are probably also reported in the Operator 6 report.)

#### 10755 kHz, 24-03, 1326 UTC, J3E USB

800Hz tone for 45s, tone shifts in a few seconds: 800Hz -> 1000Hz -> 1300Hz -> 1600Hz -> 1300Hz -> 1000Hz -> [silence] -> 800Hz -> 1000Hz -> 800Hz, 800Hz tone for 2m, tone shifts: 800Hz -> 600Hz -> 800Hz -> 1000Hz -> 1300Hz -> 1000Hz -> 800Hz, 800Hz tone for 40s, pause, 800Hz tone for 6m40s

**10755 kHz, 24-03, 1336 UTC, J3E USB**

Slavic male voice: "Единица, двойка, тройка, четворка."

**10755 kHz, 24-03, 1337 UTC, J3E USB**

Slavic male voice (different operator): "Единица, двойка, тройка, четворка, петица, шестика, седмица, осмица, девятка, десятка."

**10755 kHz, 24-03, 1344 UTC, J3E USB**

Transmitter noise on and off for an hour

**10755 kHz, 25-03, 1323 UTC, J3E USB**

800Hz tone for 50s, TX noise for 2s, 800Hz tone for 45s

**10755 kHz, 25-03, 1324 UTC, J3E USB**

Slavic male voice: "Единица, двойка, тройка. Единица. Единица, двойка, тройка, четворка. Единица, двойка, тройка, четворка, петица, шестика."

**10755 kHz, 25-03, 1329 UTC, J3E USB**

800Hz tone for 40s

**10755 kHz, 25-03, 1330 UTC, J3E USB**

Slavic male voice: "Единица, двойка, тройка, четворка. Единица, двойка, тройка, четворка, петица."

800Hz tone for 30s, then TX noise for 9m

*"Very strange and confusing, because those numbers are distorted Russian at best. Петица, шестика, седмица, (в)осмица are definitely NOT correct Russian. Unclear if that's supposed to be another Slavic language instead.*

*Then there was also some PACTOR afterwards, about a minute or two each time, except last time. We couldn't decode it."*

10755 kHz, 25-03, 1435 UTC, J2D USB PACTOR-I selcall then PACTOR-III

10755 kHz, 25-03, 1439 UTC, J2D USB PACTOR-I selcall then PACTOR-III

10755 kHz, 25-03, 1441 UTC, J2D USB PACTOR-I selcall then PACTOR-III

10755 kHz, 25-03, 1446 UTC, J2D USB PACTOR-I selcall then PACTOR-III

10755 kHz, 25-03, 1447 UTC, J2D USB PACTOR-I selcall then PACTOR-III

10755 kHz, 25-03, 1509 UTC, J2D USB PACTOR-I selcall then PACTOR-III

10755 kHz, 25-03, 1526 UTC, J2D USB PACTOR-I selcall then PACTOR-III for 5m, no further activity

*Now the voice stuff on March 24th and 25th are clearly the same thing, same signature and all. As for everything else, I don't know if and how it relates to each other or anything.*



## LOGBOOK

| Code | Date | UTC  | Freq  | Day | Details         | Mode      | Contributor |
|------|------|------|-------|-----|-----------------|-----------|-------------|
| ---  | 24-3 | 0751 | 14974 | Tue | Unid            | MFSK-11   | (AB)        |
| ---  | 27-3 | 0730 | 14652 | Fri | Unid            | MFSK-11   | (AB)        |
| ---  | 30-3 | 0200 | 7910  | Mon | Tone jammer     | AM        | (AB)        |
| BUL  | 4-3  | 0923 | 14755 | Wed | Bulgarian diplo | RFSM-8000 | (AB)        |
| BUL  | 6-3  | 0933 | 14755 | Fri | Bulgarian diplo | RFSM-8000 | (AB)        |
| BUL  | 6-3  | 0933 | 16040 | Fri | Bulgarian diplo | RFSM-8000 | (AB)        |
| BUL  | 6-3  | 1321 | 17440 | Fri | Bulgarian diplo | RFSM-8000 | (AB)        |
| BUL  | 6-3  | 1356 | 18455 | Fri | Bulgarian diplo | RFSM-8000 | (AB)        |
| BUL  | 9-3  | 0923 | 14755 | Mon | Bulgarian diplo | RFSM-8000 | (AB)        |
| BUL  | 9-3  | 1356 | 18455 | Mon | Bulgarian diplo | RFSM-8000 | (AB)        |
| BUL  | 10-3 | 0922 | 14755 | Tue | Bulgarian diplo | RFSM-8000 | (AB)        |
| BUL  | 10-3 | 1202 | 18455 | Tue | Bulgarian diplo | RFSM-8000 | (AB)        |
| BUL  | 10-3 | 1321 | 17440 | Tue | Bulgarian diplo | RFSM-8000 | (AB)        |
| BUL  | 11-3 | 0832 | 14755 | Wed | Bulgarian diplo | RFSM-8000 | (AB)        |
| BUL  | 11-3 | 1322 | 17440 | Wed | Bulgarian diplo | RFSM-8000 | (AB)        |
| BUL  | 11-3 | 1357 | 18455 | Wed | Bulgarian diplo | RFSM-8000 | (AB)        |
| BUL  | 12-3 | 0922 | 14755 | Thu | Bulgarian diplo | RFSM-8000 | (AB)        |
| BUL  | 12-3 | 1321 | 17440 | Thu | Bulgarian diplo | RFSM-8000 | (AB)        |
| BUL  | 12-3 | 1354 | 18455 | Thu | Bulgarian diplo | RFSM-8000 | (AB)        |
| BUL  | 13-3 | 0922 | 14755 | Fri | Bulgarian diplo | RFSM-8000 | (AB)        |
| BUL  | 13-3 | 1322 | 17440 | Fri | Bulgarian diplo | RFSM-8000 | (AB)        |
| BUL  | 13-3 | 1357 | 18455 | Fri | Bulgarian diplo | RFSM-8000 | (AB)        |
| BUL  | 16-3 | 0827 | 9375  | Mon | Bulgarian diplo | RFSM-8000 | (AB)        |
| BUL  | 16-3 | 0925 | 14755 | Mon | Bulgarian diplo | RFSM-8000 | (AB)        |
| BUL  | 16-3 | 1324 | 17440 | Mon | Bulgarian diplo | RFSM-8000 | (AB)        |
| BUL  | 16-3 | 1325 | 13365 | Mon | Bulgarian diplo | RFSM-8000 | (AB)        |
| BUL  | 16-3 | 1356 | 18455 | Mon | Bulgarian diplo | RFSM-8000 | (AB)        |
| BUL  | 17-3 | 0931 | 14755 | Tue | Bulgarian diplo | RFSM-8000 | (AB)        |
| BUL  | 17-3 | 1324 | 17440 | Tue | Bulgarian diplo | RFSM-8000 | (AB)        |
| BUL  | 17-3 | 1328 | 13365 | Tue | Bulgarian diplo | RFSM-8000 | (AB)        |
| BUL  | 17-3 | 1357 | 18455 | Tue | Bulgarian diplo | RFSM-8000 | (AB)        |
| BUL  | 18-3 | 0925 | 14755 | Wed | Bulgarian diplo | RFSM-8000 | (AB)        |
| BUL  | 18-3 | 1356 | 18455 | Wed | Bulgarian diplo | RFSM-8000 | (AB)        |
| BUL  | 20-3 | 0921 | 14755 | Fri | Bulgarian diplo | RFSM-8000 | (AB)        |
| BUL  | 20-3 | 1035 | 13365 | Fri | Bulgarian diplo | RFSM-8000 | (AB)        |

[illegible]

|     |      |      |       |     |                                                                                 |     |             |
|-----|------|------|-------|-----|---------------------------------------------------------------------------------|-----|-------------|
| E07 | 10-3 | 1500 | 14571 | Tue | 584 584 584 000                                                                 | USB | (AB/RL-HOL) |
| E07 | 10-3 | 1520 | 15851 | Tue | 584 584 584 000                                                                 | USB | (AB/Lac)    |
| E07 | 12-3 | 1000 | 18192 | Thu | 149 149 149 1 888 200 888 200 30942 62222 38837 ... 69324 09475 15018           | USB | (AB/Lac)    |
| E07 | 12-3 | 1020 | 17425 | Thu | 149 149 149 1 888 200 888 200 30942 62222 38837 ... 69324 09475 15018           | USB | (AB/Lac)    |
| E07 | 12-3 | 1040 | 15978 | Thu | 149 149 149 1 888 200 888 200 30942 62222 38837 ... 69324 09475 15018           | USB | (AB/Lac)    |
| E07 | 13-3 | 1500 | 14571 | Fri | 584 584 584 000                                                                 | USB | (AB)        |
| E07 | 13-3 | 1520 | 15851 | Fri | 584 584 584 000                                                                 | USB | (AB)        |
| E07 | 14-3 | 1000 | 18192 | Sat | 149 149 149 1 888 200 888 200 30942 62222 38837 ... 69324 09475 15018           | USB | (AB/Lac)    |
| E07 | 14-3 | 1020 | 17425 | Sat | 149 149 149 1 888 200 888 200 30942 62222 38837 ... 69324 09475 15018           | USB | (AB/Lac)    |
| E07 | 14-3 | 1040 | 15978 | Sat | 149 149 149 1 888 200 888 200 30942 62222 38837 ... 69324 09475 15018           | USB | (AB/Lac)    |
| E07 | 17-3 | 1500 | 14571 | Tue | 584 584 584 1 2036 190 2036 190 07300 19759 14874 ... 72473 54587 33146 000 000 | USB | (AB/Lac)    |
| E07 | 17-3 | 1520 | 15851 | Tue | 584 584 584 1 2036 190 2036 190 07300 19759 14874 ... 72473 54587 33146 000 000 | USB | (AB/Lac)    |
| E07 | 17-3 | 1540 | 17451 | Tue | 584 584 584 1 2036 190 2036 190 07300 19759 14874 ... 72473 54587 33146 000 000 | USB | (AB/Lac)    |
| E07 | 17-3 | 1540 | 17451 | Tue | 584 1 2036 190                                                                  | USB | (Lac)       |
| E07 | 19-3 | 1000 | 18192 | Thu | 149 149 149 000                                                                 | USB | (AB)        |
| E07 | 19-3 | 1020 | 17425 | Thu | 149 149 149 000                                                                 | USB | (AB)        |
| E07 | 20-3 | 1500 | 14571 | Fri | 584 584 584 1 2036 190 2036 190 07300 19759 14874 ... 72473 54587 33146 000 000 | USB | (AB)        |
| E07 | 20-3 | 1520 | 15851 | Fri | 584 584 584 1 2036 190 2036 190 07300 19759 14874 ... 72473 54587 33146 000 000 | USB | (AB)        |
| E07 | 20-3 | 1540 | 17451 | Fri | 584 584 584 1 2036 190 2036 190 07300 19759 14874 ... 72473 54587 33146 000 000 | USB | (AB)        |
| E07 | 21-3 | 1000 | 18192 | Sat | 149 149 149 000                                                                 | USB | (AB-QAT)    |
| E07 | 21-3 | 1020 | 17425 | Sat | 149 149 149 000                                                                 | USB | (AB-QAT)    |
| E07 | 24-3 | 1500 | 14571 | Tue | 584 584 584 000                                                                 | USB | (AB/Lac)    |
| E07 | 24-3 | 1520 | 15851 | Tue | 584 584 584 000                                                                 | USB | (AB/Lac)    |
| E07 | 26-3 | 1000 | 18192 | Thu | 149 149 149 1 926 175 926 175 53229 16951 66408 ... 77774 70300 69924 000 000   | USB | (AB/Lac)    |
| E07 | 26-3 | 1020 | 17425 | Thu | 149 149 149 1 926 175 926 175 53229 16951 66408 ... 77774 70300 69924 000 000   | USB | (AB/Lac)    |
| E07 | 26-3 | 1040 | 15978 | Thu | 149 149 149 1 926 175 926 175 53229 16951 66408 ... 77774 70300 69924 000 000   | USB | (AB/Lac)    |
| E07 | 27-3 | 1500 | 14571 | Fri | 584 584 584 000                                                                 | USB | (AB)        |
| E07 | 27-3 | 1520 | 15851 | Fri | 584 584 584 000                                                                 | USB | (AB)        |
| E07 | 28-3 | 1000 | 18192 | Sat | 149 149 149 1 926 175 926 175 53229 16951 66408 ... 77774 70300 69924 000 000   | USB | (AB)        |
| E07 | 28-3 | 1020 | 17425 | Sat | 149 149 149 1 926 175 926 175 53229 16951 66408 ... 77774 70300 69924 000 000   | USB | (AB)        |
| E07 | 28-3 | 1040 | 15978 | Sat | 149 149 149 1 926 175 926 175 53229 16951 66408 ... 77774 70300 69924 000 000   | USB | (AB)        |
| E07 | 31-3 | 1500 | 14571 | Tue | 584 584 584 1 917 67 917 67 48359 13832 72733 ... 33736 11788 98748 000 000     | USB | (AB/Lac)    |
| E07 | 31-3 | 1520 | 15851 | Tue | 584 584 584 1 917 67 917 67 48359 13832 72733 ... 33736 11788 98748 000 000     | USB | (AB/Lac)    |
| E07 | 31-3 | 1540 | 17451 | Tue | 584 584 584 1 917 67 917 67 48359 13832 72733 ... 33736 11788 98748 000 000     | USB | (AB/Lac)    |
| E11 | 1-3  | 0600 | 8680  | Sun | 351/00 Out                                                                      | USB | (AB)        |
| E11 | 1-3  | 0700 | 9079  | Sun | 497/00 Out                                                                      | USB | (AB)        |
| E11 | 1-3  | 1605 | 5176  | Sun | 236/00 Out                                                                      | USB | (AB)        |
| E11 | 1-3  | 1645 | 4505  | Sun | 368/00 Out                                                                      | USB | (AB)        |
| E11 | 1-3  | 1745 | 13470 | Sun | 248/00 Out                                                                      | USB | (AB-POL)    |
| E11 | 1-3  | 1815 | 11116 | Sun | 927/00 Out                                                                      | USB | (AB)        |
| E11 | 1-3  | 1910 | 8530  | Sun | 613/00 Out                                                                      | USB | (AB)        |
| E11 | 2-3  | 0600 | 25839 | Mon | 945/00 Out                                                                      | USB | (AB)        |
| E11 | 2-3  | 0715 | 19515 | Mon | 759/00 Out                                                                      | USB | (AB/Lac)    |
| E11 | 2-3  | 0745 | 10213 | Mon | 269/00 Out                                                                      | USB | (AB/Lac)    |
| E11 | 2-3  | 0830 | 20170 | Mon | 185/00 Out                                                                      | USB | (AB/Lac)    |
| E11 | 2-3  | 0845 | 12202 | Mon | 710/00 Out                                                                      | USB | (AB/Lac)    |
| E11 | 2-3  | 0900 | 13117 | Mon | 534/00 Out                                                                      | USB | (AB/Lac)    |

|     |     |      |       |     |            |     |          |
|-----|-----|------|-------|-----|------------|-----|----------|
| E11 | 2-3 | 1045 | 12385 | Mon | 694/00 Out | USB | (AB/Lac) |
| E11 | 2-3 | 1300 | 5371  | Mon | 310/00 Out | USB | (AB/Lac) |
| E11 | 2-3 | 1745 | 13470 | Mon | 248/00 Out | USB | (AB/Lac) |
| E11 | 2-3 | 1900 | 7317  | Mon | 649/00 Out | USB | (AB)     |
| E11 | 3-3 | 0700 | 8180  | Tue | 570/00 Out | USB | (AB/Lac) |
| E11 | 3-3 | 0715 | 14666 | Tue | 636/00 Out | USB | (AB/Lac) |
| E11 | 3-3 | 0845 | 18168 | Tue | 150/00 Out | USB | (AB/Lac) |
| E11 | 3-3 | 0930 | 19184 | Tue | 136/00 Out | USB | (AB/Lac) |
| E11 | 3-3 | 1205 | 9399  | Tue | 466/00 Out | USB | (AB/Lac) |
| E11 | 3-3 | 1230 | 12530 | Tue | 337/00 Out | USB | (AB/Lac) |
| E11 | 3-3 | 1430 | 14972 | Tue | 918/00 Out | USB | (AB/Lac) |
| E11 | 3-3 | 1605 | 5176  | Tue | 236/00 Out | USB | (AB/Lac) |
| E11 | 4-3 | 0645 | 10800 | Wed | 412/00 Out | USB | (AB)     |
| E11 | 4-3 | 0715 | 19515 | Wed | 755/00 Out | USB | (AB-POL) |
| E11 | 4-3 | 0820 | 19184 | Wed | 133/00 Out | USB | (AB/Lac) |
| E11 | 4-3 | 0845 | 12202 | Wed | 713/00 Out | USB | (AB)     |
| E11 | 4-3 | 0900 | 13117 | Wed | 533/00 Out | USB | (AB/Lac) |
| E11 | 4-3 | 0930 | 6940  | Wed | 278/00 Out | USB | (AB/Lac) |
| E11 | 4-3 | 1045 | 12385 | Wed | 691/00 Out | USB | (AB/Lac) |
| E11 | 4-3 | 1205 | 9399  | Wed | 462/00 Out | USB | (AB/Lac) |
| E11 | 4-3 | 1610 | 4181  | Wed | 399/00 Out | USB | (AB/Lac) |
| E11 | 5-3 | 0720 | 9446  | Thu | 438/00 Out | USB | (AB)     |
| E11 | 5-3 | 0845 | 18168 | Thu | 155/00 Out | USB | (AB)     |
| E11 | 5-3 | 0930 | 6940  | Thu | 279/00 Out | USB | (AB/Lac) |
| E11 | 5-3 | 1230 | 12530 | Thu | 338/00 Out | USB | (AB/Lac) |
| E11 | 5-3 | 1300 | 5371  | Thu | 316/00 Out | USB | (AB/Lac) |
| E11 | 5-3 | 1530 | 10330 | Thu | 262/00 Out | USB | (AB/Lac) |
| E11 | 5-3 | 1900 | 7317  | Thu | 640/00 Out | USB | (AB/Lac) |
| E11 | 5-3 | 2000 | 5737  | Thu | 521/00 Out | USB | (AB/Lac) |
| E11 | 6-3 | 0600 | 8680  | Fri | 350/00 Out | USB | (AB)     |
| E11 | 6-3 | 0700 | 8180  | Fri | 571/00 Out | USB | (AB)     |
| E11 | 6-3 | 0715 | 14666 | Fri | 635/00 Out | USB | (AB)     |
| E11 | 6-3 | 0820 | 9446  | Fri | 431/00 Out | USB | (AB)     |
| E11 | 6-3 | 0830 | 20170 | Fri | 180/00 Out | USB | (AB)     |
| E11 | 6-3 | 1815 | 11116 | Fri | 920/00 Out | USB | (AB/Lac) |
| E11 | 6-3 | 1910 | 8530  | Fri | 616/00 Out | USB | (AB/Lac) |
| E11 | 7-3 | 0700 | 9079  | Sat | 491/00 Out | USB | (AB/Lac) |
| E11 | 7-3 | 1430 | 14972 | Sat | 919/00 Out | USB | (AB)     |
| E11 | 7-3 | 1610 | 4181  | Sat | 396/00 Out | USB | (AB)     |
| E11 | 7-3 | 1645 | 4505  | Sat | 364/00 Out | USB | (AB)     |
| E11 | 8-3 | 0600 | 8680  | Sun | 355/00 Out | USB | (AB)     |
| E11 | 8-3 | 0700 | 9079  | Sun | 498/00 Out | USB | (AB)     |
| E11 | 8-3 | 1605 | 5176  | Sun | 236/00 Out | USB | (AB)     |
| E11 | 8-3 | 1645 | 4505  | Sun | 363/00 Out | USB | (AB)     |
| E11 | 8-3 | 1745 | 13470 | Sun | 244/00 Out | USB | (AB-POL) |
| E11 | 8-3 | 1815 | 11116 | Sun | 925/00 Out | USB | (AB)     |
| E11 | 8-3 | 1910 | 8530  | Sun | 610/00 Out | USB | (AB)     |

|     |      |      |       |     |            |     |                        |
|-----|------|------|-------|-----|------------|-----|------------------------|
| E11 | 8-3  | 2000 | 5737  | Sun | 524/00 Out | USB | (AB)                   |
| E11 | 9-3  | 0600 | 25839 | Mon | 949/00 Out | USB | (AB-POL)               |
| E11 | 9-3  | 0645 | 10800 | Mon | 416/00 Out | USB | (AB)                   |
| E11 | 9-3  | 0745 | 10213 | Mon | 264/00 Out | USB | (AB)                   |
| E11 | 9-3  | 0830 | 20170 | Mon | 189/00 Out | USB | (AB/Hi-ram/Lac)        |
| E11 | 9-3  | 0845 | 12202 | Mon | 718/00 Out | USB | (AB/Hi-ram/Lac)        |
| E11 | 9-3  | 0900 | 13117 | Mon | 532/00 Out | USB | (AB/Hi-ram/Lac)        |
| E11 | 9-3  | 1045 | 12385 | Mon | 697/00 Out | USB | (AB/Hi-ram/RL-HOL/Lac) |
| E11 | 9-3  | 1300 | 5371  | Mon | 313/00 Out | USB | (AB-POL)               |
| E11 | 9-3  | 1745 | 13470 | Mon | 240/00 Out | USB | (AB)                   |
| E11 | 9-3  | 1900 | 7317  | Mon | 640/00 Out | USB | (AB/RL-HOL)            |
| E11 | 10-3 | 0645 | 13470 | Tue | 511/00 Out | USB | (AB)                   |
| E11 | 10-3 | 0715 | 14666 | Tue | 633/00 Out | USB | (Lac)                  |
| E11 | 10-3 | 0745 | 22995 | Tue | 224/00 Out | USB | (AB)                   |
| E11 | 10-3 | 0845 | 18168 | Tue | 150/00 Out | USB | (AB)                   |
| E11 | 10-3 | 1000 | 9951  | Tue | 300/00 Out | USB | (AB)                   |
| E11 | 10-3 | 1205 | 9399  | Tue | 464/00 Out | USB | (AB/Lac)               |
| E11 | 10-3 | 1230 | 12530 | Tue | 337/00 Out | USB | (AB)                   |
| E11 | 10-3 | 1430 | 14972 | Tue | 914/00 Out | USB | (AB/Lac)               |
| E11 | 10-3 | 1605 | 5176  | Tue | 235/00 Out | USB | (AB/Lac)               |
| E11 | 11-3 | 0600 | 25839 | Wed | 949/00 Out | USB | (AB)                   |
| E11 | 11-3 | 0645 | 10800 | Wed | 412/00 Out | USB | (AB/Lac)               |
| E11 | 11-3 | 0745 | 17410 | Wed | 349/00 Out | USB | (AB-POL/Lac)           |
| E11 | 11-3 | 0845 | 12202 | Wed | 714/00 Out | USB | (AB)                   |
| E11 | 11-3 | 0900 | 13117 | Wed | 532/00 Out | USB | (AB)                   |
| E11 | 11-3 | 0930 | 6940  | Wed | 276/00 Out | USB | (AB)                   |
| E11 | 11-3 | 1045 | 12385 | Wed | 692/00 Out | USB | (AB)                   |
| E11 | 11-3 | 1205 | 9399  | Wed | 464/00 Out | USB | (AB)                   |
| E11 | 11-3 | 1610 | 4181  | Wed | 392/00 Out | USB | (AB)                   |
| E11 | 11-3 | 1715 | 6923  | Wed | 972/00 Out | USB | (AB)                   |
| E11 | 12-3 | 0645 | 13470 | Thu | 515/00 Out | USB | (AB)                   |
| E11 | 12-3 | 0745 | 22995 | Thu | 228/00 Out | USB | (AB)                   |
| E11 | 12-3 | 0845 | 18168 | Thu | 150/00 Out | USB | (AB/Lac)               |
| E11 | 12-3 | 0930 | 6940  | Thu | 276/00 Out | USB | (AB/Lac)               |
| E11 | 12-3 | 1230 | 12530 | Thu | 330/00 Out | USB | (AB)                   |
| E11 | 12-3 | 1300 | 5371  | Thu | 319/00 Out | USB | (AB)                   |
| E11 | 12-3 | 1530 | 10330 | Thu | 268/00 Out | USB | (AB)                   |
| E11 | 12-3 | 1900 | 7317  | Thu | 646/00 Out | USB | (AB)                   |
| E11 | 12-3 | 2000 | 5737  | Thu | 525/00 Out | USB | (AB)                   |
| E11 | 13-3 | 0600 | 8680  | Fri | 353/00 Out | USB | (AB)                   |
| E11 | 13-3 | 0715 | 14666 | Fri | 639/00 Out | USB | (AB)                   |
| E11 | 13-3 | 0830 | 20170 | Fri | 185/00 Out | USB | (AB)                   |



|     |      |      |       |     |                                            |     |              |
|-----|------|------|-------|-----|--------------------------------------------|-----|--------------|
| E11 | 13-3 | 1000 | 9951  | Fri | 300/00 Out                                 | USB | (AB)         |
| E11 | 13-3 | 1020 | 17410 | Fri | 349/00 Out                                 | USB | (AB)         |
| E11 | 13-3 | 1715 | 6923  | Fri | 975/00 Out                                 | USB | (AB)         |
| E11 | 14-3 | 0700 | 9079  | Sat | 491/00 Out                                 | USB | (AB)         |
| E11 | 14-3 | 1430 | 14972 | Sat | 917/00 Out                                 | USB | (AB)         |
| E11 | 14-3 | 1610 | 4181  | Sat | 399/00 Out                                 | USB | (AB)         |
| E11 | 15-3 | 0600 | 8680  | Sun | 354/00 Out                                 | USB | (AB)         |
| E11 | 15-3 | 0700 | 9079  | Sun | 496/00 Out                                 | USB | (AB/Lac)     |
| E11 | 15-3 | 1605 | 5176  | Sun | 231/00 Out                                 | USB | (AB)         |
| E11 | 15-3 | 1745 | 13470 | Sun | 242/00 Out                                 | USB | (AB-POL)     |
| E11 | 15-3 | 1910 | 8530  | Sun | Active but unreadable (radar interference) | USB | (AB)         |
| E11 | 15-3 | 2000 | 5737  | Sun | 524/00 Out                                 | USB | (AB)         |
| E11 | 16-3 | 0645 | 10800 | Mon | not heard                                  | USB | (Lac)        |
| E11 | 16-3 | 0715 | 19515 | Mon | 750/00 Out                                 | USB | (AB/Lac)     |
| E11 | 16-3 | 0830 | 20170 | Mon | 185/00 Out                                 | USB | (AB-POL/Lac) |
| E11 | 16-3 | 1045 | 12385 | Mon | 693/00 Out                                 | USB | (AB/Lac)     |
| E11 | 16-3 | 1045 | 12385 | Mon | 693/00                                     | USB | (Lac)        |
| E11 | 16-3 | 1300 | 5371  | Mon | not heard                                  | USB | (Lac)        |
| E11 | 16-3 | 1745 | 13470 | Mon | No transmission                            | USB | (AB/Lac)     |
| E11 | 16-3 | 1900 | 7317  | Mon | No transmission                            | USB | (AB/Lac)     |
| E11 | 17-3 | 0645 | 13470 | Tue | No transmission                            | USB | (AB)         |
| E11 | 17-3 | 0700 | 8180  | Tue | No transmission                            | USB | (AB)         |
| E11 | 17-3 | 0715 | 14666 | Tue | No transmission                            | USB | (AB)         |
| E11 | 17-3 | 0745 | 22995 | Tue | No transmission                            | USB | (AB)         |
| E11 | 17-3 | 0845 | 18168 | Tue | 152/00 Out                                 | USB | (AB/Lac)     |
| E11 | 17-3 | 0930 | 19184 | Tue | 132/00 Out                                 | USB | (AB-POL)     |
| E11 | 17-3 | 1000 | 9951  | Tue | 308/00 Out                                 | USB | (AB)         |
| E11 | 17-3 | 1230 | 12530 | Tue | 334/00 Out                                 | USB | (AB/Lac)     |
| E11 | 17-3 | 1605 | 5176  | Tue | 237/00 Out                                 | USB | (AB/Lac)     |
| E11 | 18-3 | 0600 | 25839 | Wed | 946/00 Out                                 | USB | (AB)         |
| E11 | 18-3 | 0645 | 10800 | Wed | No transmission                            | USB | (AB)         |
| E11 | 18-3 | 0715 | 19515 | Wed | 755/00 Out                                 | USB | (AB-POL)     |
| E11 | 18-3 | 0745 | 17410 | Wed | 344/00 Out                                 | USB | (AB-POL)     |
| E11 | 18-3 | 0820 | 19184 | Wed | 134/00 Out                                 | USB | (AB-POL)     |
| E11 | 18-3 | 0930 | 6940  | Wed | 278/00 Out                                 | USB | (AB)         |
| E11 | 18-3 | 1045 | 12385 | Wed | 691/00 Out                                 | USB | (AB)         |
| E11 | 18-3 | 1610 | 4181  | Wed | 390/00 Out                                 | USB | (AB)         |
| E11 | 18-3 | 1715 | 6923  | Wed | 970/00 Out                                 | USB | (AB)         |
| E11 | 19-3 | 0645 | 13470 | Thu | 518/00 Out                                 | USB | (AB)         |
| E11 | 19-3 | 0720 | 9446  | Thu | Not heard                                  | USB | (AB)         |
| E11 | 19-3 | 0745 | 22995 | Thu | Not heard                                  | USB | (AB-POL)     |
| E11 | 19-3 | 0845 | 18168 | Thu | 159/00 Out                                 | USB | (AB)         |
| E11 | 19-3 | 0930 | 6940  | Thu | 275/00 Out                                 | USB | (AB)         |
| E11 | 19-3 | 1230 | 12530 | Thu | 333/00 Out                                 | USB | (AB)         |
| E11 | 19-3 | 1900 | 7317  | Thu | 643/00 Out                                 | USB | (AB)         |
| E11 | 20-3 | 0700 | 8180  | Fri | 576/00 Out                                 | USB | (AB/Lac)     |
| E11 | 20-3 | 0715 | 14666 | Fri | 637/00 Out                                 | USB | (AB/Lac)     |

|     |      |      |       |     |                                 |     |          |
|-----|------|------|-------|-----|---------------------------------|-----|----------|
| E11 | 20-3 | 0820 | 9446  | Fri | Not heard                       | USB | (AB)     |
| E11 | 20-3 | 0830 | 20170 | Fri | 185/00 Out                      | USB | (AB)     |
| E11 | 20-3 | 1000 | 9951  | Fri | 309/00 Out                      | USB | (AB)     |
| E11 | 20-3 | 1020 | 17410 | Fri | 344/00 Out                      | USB | (AB)     |
| E11 | 20-3 | 1715 | 6923  | Fri | 977/00 Out                      | USB | (AB)     |
| E11 | 20-3 | 1815 | 11116 | Fri | 924/00 Out                      | USB | (AB)     |
| E11 | 20-3 | 1910 | 8530  | Fri | 618/00 Out                      | USB | (AB)     |
| E11 | 21-3 | 0700 | 9079  | Sat | 497/00 Out                      | USB | (AB)     |
| E11 | 21-3 | 1610 | 4181  | Sat | 395/00 Out                      | USB | (AB)     |
| E11 | 21-3 | 1645 | 4505  | Sat | 364/00 Out                      | USB | (AB)     |
| E11 | 22-3 | 0700 | 9079  | Sun | 496/00 Out                      | USB | (AB)     |
| E11 | 22-3 | 1605 | 5176  | Sun | 235/00 Out                      | USB | (AB)     |
| E11 | 22-3 | 1645 | 4505  | Sun | 367/00 Out                      | USB | (AB)     |
| E11 | 22-3 | 1745 | 13470 | Sun | 240/00 Out                      | USB | (Lac)    |
| E11 | 22-3 | 1815 | 11116 | Sun | 924/00 Out                      | USB | (AB)     |
| E11 | 22-3 | 1910 | 8530  | Sun | Unreadable (radar interference) | USB | (AB)     |
| E11 | 23-3 | 0715 | 19515 | Mon | 752/00 Out                      | USB | (AB/Lac) |
| E11 | 23-3 | 0745 | 10213 | Mon | 269/00 Out                      | USB | (AB/Lac) |
| E11 | 23-3 | 0845 | 12202 | Mon | 718/00 Out                      | USB | (AB/Lac) |
| E11 | 23-3 | 0900 | 13117 | Mon | 532/00 Out                      | USB | (AB/Lac) |
| E11 | 23-3 | 1300 | 5371  | Mon | 312/00 Out                      | USB | (AB)     |
| E11 | 23-3 | 1900 | 7317  | Mon | 648/00 Out                      | USB | (AB)     |
| E11 | 24-3 | 0645 | 13470 | Tue | 519/00 Out                      | USB | (AB)     |
| E11 | 24-3 | 0700 | 8180  | Tue | 574/00 Out                      | USB | (AB/Lac) |
| E11 | 24-3 | 0745 | 26756 | Tue | 220/00 Out                      | USB | (AB/Lac) |
| E11 | 24-3 | 0930 | 19184 | Tue | 133/00 Out                      | USB | (AB-POL) |
| E11 | 24-3 | 1000 | 9951  | Tue | 309/00 Out                      | USB | (AB)     |
| E11 | 24-3 | 1430 | 14972 | Tue | 917/00 Out                      | USB | (AB)     |
| E11 | 25-3 | 0315 | 12630 | Wed | 253/00 Out                      | USB | (AB)     |
| E11 | 25-3 | 0715 | 19515 | Wed | 754/00 Out                      | USB | (AB-POL) |
| E11 | 25-3 | 0745 | 17410 | Wed | 347/00 Out                      | USB | (AB-POL) |
| E11 | 25-3 | 0820 | 19184 | Wed | 130/00 Out                      | USB | (AB-POL) |
| E11 | 25-3 | 0845 | 12202 | Wed | 710/00 Out                      | USB | (AB)     |
| E11 | 25-3 | 0900 | 13117 | Wed | 533/00 Out                      | USB | (AB)     |
| E11 | 25-3 | 1205 | 9399  | Wed | 466/00 Out                      | USB | (AB)     |
| E11 | 25-3 | 1715 | 6923  | Wed | 970/00 Out                      | USB | (AB/Lac) |
| E11 | 26-3 | 0645 | 13470 | Thu | 518/00 Out                      | USB | (AB)     |
| E11 | 26-3 | 0720 | 8423  | Thu | 431/00 Out                      | USB | (AB)     |
| E11 | 26-3 | 0745 | 22995 | Thu | 225/00 Out                      | USB | (AB-POL) |
| E11 | 26-3 | 1300 | 5371  | Thu | 315/00 Out                      | USB | (AB)     |
| E11 | 26-3 | 1530 | 10330 | Thu | 269/00 Out                      | USB | (AB)     |
| E11 | 26-3 | 1900 | 7317  | Thu | 640/00 Out                      | USB | (AB/Lac) |
| E11 | 26-3 | 2000 | 5737  | Thu | 525/00 Out                      | USB | (AB/Lac) |
| E11 | 27-3 | 0600 | 8680  | Fri | 354/00 Out                      | USB | (AB)     |
| E11 | 27-3 | 0700 | 8180  | Fri | 575/00 Out                      | USB | (AB)     |
| E11 | 27-3 | 0720 | 8423  | Fri | 436/00 Out                      | USB | (AB/Lac) |
| E11 | 27-3 | 1000 | 9951  | Fri | 306/00 Out                      | USB | (AB/Lac) |

|      |      |      |       |     |                                                                                           |     |              |
|------|------|------|-------|-----|-------------------------------------------------------------------------------------------|-----|--------------|
| E11  | 27-3 | 1020 | 17410 | Fri | 349/00 Out                                                                                | USB | (AB-POL/Lac) |
| E11  | 27-3 | 1715 | 6923  | Fri | 972/00 Out                                                                                | USB | (AB)         |
| E11  | 27-3 | 1815 | 11116 | Fri | 929/00 Out                                                                                | USB | (AB)         |
| E11  | 27-3 | 1910 | 8530  | Fri | 617/00 Out                                                                                | USB | (AB)         |
| E11  | 28-3 | 1430 | 14972 | Sat | 917/00 Out                                                                                | USB | (AB)         |
| E11  | 28-3 | 1645 | 4505  | Sat | 367/00 Out                                                                                | USB | (AB)         |
| E11  | 29-3 | 0600 | 8680  | Sun | 352/00 Out                                                                                | USB | (AB)         |
| E11  | 29-3 | 1645 | 4505  | Sun | 365/00 Out                                                                                | USB | (AB)         |
| E11  | 29-3 | 1815 | 11116 | Sun | 927/00 Out                                                                                | USB | (AB)         |
| E11  | 29-3 | 1910 | 8530  | Sun | 611/00 Out                                                                                | USB | (AB)         |
| E11  | 29-3 | 2000 | 5737  | Sun | 520/00 Out                                                                                | USB | (AB)         |
| E11  | 30-3 | 0315 | 12630 | Mon | 257/00 Out                                                                                | USB | (AB)         |
| E11  | 30-3 | 0600 | 23353 | Mon | 949/00 Out                                                                                | USB | (AB-POL)     |
| E11  | 30-3 | 0715 | 19515 | Mon | 755/00 Out                                                                                | USB | (AB-POL/Lac) |
| E11  | 30-3 | 0745 | 10213 | Mon | 261/00 Out                                                                                | USB | (AB)         |
| E11  | 30-3 | 0830 | 20170 | Mon | 183/00 Out                                                                                | USB | (AB-POL/Lac) |
| E11  | 30-3 | 0845 | 12202 | Mon | 713/00 Out                                                                                | USB | (AB/Lac)     |
| E11  | 30-3 | 0900 | 13117 | Mon | 530/00 Out                                                                                | USB | (AB/Lac)     |
| E11  | 30-3 | 1045 | 12385 | Mon | 698/00 Out                                                                                | USB | (AB/Lac)     |
| E11  | 30-3 | 1300 | 5371  | Mon | 313/00 Out                                                                                | USB | (AB/Lac)     |
| E11  | 30-3 | 1745 | 13470 | Mon | 245/00 Out                                                                                | USB | (AB-POL/Lac) |
| E11  | 31-3 | 0645 | 13470 | Tue | 514/00 Out                                                                                | USB | (AB/Lac)     |
| E11  | 31-3 | 0700 | 8180  | Tue | 574/00 Out                                                                                | USB | (AB/Lac)     |
| E11  | 31-3 | 0715 | 14666 | Tue | 636/00 Out                                                                                | USB | (AB-POL)     |
| E11  | 31-3 | 0745 | 26756 | Tue | 229/00 Out                                                                                | USB | (AB-POL/Lac) |
| E11  | 31-3 | 0845 | 18168 | Tue | 157/00 Out                                                                                | USB | (AB/Lac)     |
| E11  | 31-3 | 0930 | 19184 | Tue | 131/00 Out                                                                                | USB | (AB-POL/Lac) |
| E11  | 31-3 | 1000 | 9951  | Tue | 309/00 Out                                                                                | USB | (AB/Lac)     |
| E11  | 31-3 | 1205 | 9399  | Tue | 466/00 Out                                                                                | USB | (AB/Lac)     |
| E11  | 31-3 | 1430 | 14972 | Tue | 914/00 Out                                                                                | USB | (AB/Lac)     |
| E11  | 31-3 | 1605 | 5176  | Tue | 237/00 Out                                                                                | USB | (AB/Lac)     |
| E11a | 1-3  | 2000 | 5737  | Sun | 527/35 Attention 69546 19118 75352 ... 93792 33688 21743 Attention (message repeated) Out | USB | (AB/Lac)     |
| E11a | 3-3  | 0645 | 13470 | Tue | 519/33 Attention 02720 64639 55661 ... 29176 15834 71010 Attention (message repeated) Out | USB | (AB)         |
| E11a | 3-3  | 0745 | 22995 | Tue | 221/37 Attention 81890 47261 15128 ... 00603 56756 47876 Attention (message repeated) Out | USB | (AB/Lac)     |
| E11a | 3-3  | 1000 | 9951  | Tue | 306/22 Attention 57104 86262 01732 ... 48833 75363 50923 Attention (message repeated) Out | USB | (AB/Lac)     |
| E11a | 4-3  | 0745 | 17410 | Wed | 340/35 Attention 00007 23571 36805 ... 09582 53418 71553 Attention (message repeated) Out | USB | (AB/Lac)     |
| E11a | 4-3  | 0745 | 17410 | Wed | 340/35                                                                                    | USB | (Lac)        |
| E11a | 4-3  | 1715 | 6923  | Wed | 974/31 Attention 76569 93189 66239 ... 62777 87793 09915 Attention (message repeated) Out | USB | (AB/Lac)     |
| E11a | 5-3  | 0645 | 13470 | Thu | 519/33 Attention 02720 64639 55661 ... 29176 15834 71010 Attention (message repeated) Out | USB | (AB)         |
| E11a | 5-3  | 0745 | 22995 | Thu | 221/37 Attention 81890 47261 15128 ... 00603 56756 47876 Attention (message repeated) Out | USB | (AB/Lac)     |

|             |      |      |       |     |                                                                                           |     |              |
|-------------|------|------|-------|-----|-------------------------------------------------------------------------------------------|-----|--------------|
|             |      |      |       |     | repeated) Out                                                                             |     |              |
| <b>E11a</b> | 6-3  | 1000 | 9951  | Fri | 306/22 Attention 57104 86262 01732 ... 48833 75363 50923 Attention (message repeated) Out | USB | (AB)         |
| <b>E11a</b> | 6-3  | 1020 | 17410 | Fri | 340/35 Attention 00007 23571 36805 ... 09582 53418 71553 Attention (message repeated) Out | USB | (AB-POL)     |
| <b>E11a</b> | 6-3  | 1715 | 6923  | Fri | 974/31 Attention 76569 93189 66239 ... 62777 87793 09915 Attention (message repeated) Out | USB | (AB)         |
| <b>E11a</b> | 9-3  | 0715 | 19515 | Mon | 755/32 Attention 56273 66551 20283 ... 37903 29716 17024 Attention (message repeated) Out | USB | (AB/Lac)     |
| <b>E11a</b> | 10-3 | 0700 | 8180  | Tue | 571/40 Attention 82402 56488 50617 ... 70846 67147 18137 Attention (message repeated) Out | USB | (AB/Lac)     |
| <b>E11a</b> | 10-3 | 0930 | 19184 | Tue | 136/35 Attention 26998 32510 39669 ... 91550 26883 89504 Attention (message repeated) Out | USB | (AB/Lac)     |
| <b>E11a</b> | 11-3 | 0715 | 19515 | Wed | 755/32 Attention 56273 66551 20283 ... 37903 29716 17024 Attention (message repeated) Out | USB | (AB-POL/Lac) |
| <b>E11a</b> | 11-3 | 0820 | 19184 | Wed | 136/35 Attention 26998 32510 39669 ... 91550 26883 89504 Attention (message repeated) Out | USB | (AB-POL)     |
| <b>E11a</b> | 12-3 | 0720 | 9446  | Thu | 435/39 Attention 69363 02108 38292 ... 20756 57270 34754 Attention (message repeated) Out | USB | (AB)         |
| <b>E11a</b> | 13-3 | 0700 | 8180  | Fri | 571/40 Attention 82402 56488 50617 ... 70846 67147 18137 Attention (message repeated) Out | USB | (AB)         |
| <b>E11a</b> | 13-3 | 0820 | 9446  | Fri | 435/39 Attention 69363 02108 38292 ... 20756 57270 34754 Attention (message repeated) Out | USB | (AB)         |
| <b>E11a</b> | 13-3 | 1815 | 11116 | Fri | 925/35 Attention 94074 57827 37611 ... 77048 66968 56430 Attention (message repeated) Out | USB | (AB)         |
| <b>E11a</b> | 13-3 | 1910 | 8530  | Fri | 618/32 Attention 69826 47228 46158 ... 63715 14412 10224 Attention (message repeated) Out | USB | (AB)         |
| <b>E11a</b> | 14-3 | 1645 | 4505  | Sat | 369/38 Attention 21846 65316 17360 ... 84303 46400 86457 Attention (message repeated) Out | USB | (AB)         |
| <b>E11a</b> | 15-3 | 1645 | 4505  | Sun | 369/38 Attention 21846 65316 17360 ... 84303 46400 86457 Attention (message repeated) Out | USB | (AB)         |
| <b>E11a</b> | 15-3 | 1815 | 11116 | Sun | 925/35 Attention 94074 57827 37611 ... 77048 66968 56430 Attention (message repeated) Out | USB | (AB/Lac)     |
| <b>E11a</b> | 15-3 | 1910 | 8530  | Sun | 618/32 Attention 69826 47228 46158 ... 63715 14412 10224 Attention (message repeated) Out | USB | (AB/Lac)     |
| <b>E11a</b> | 16-3 | 0745 | 10213 | Mon | 260/40 Attention 44168 73020 87387 ... 79662 81723 81788 Attention (message repeated) Out | USB | (AB/Lac)     |
| <b>E11a</b> | 16-3 | 0845 | 12202 | Mon | 710/38 Attention 47424 67562 04475 ... 93544 47701 68269 Attention (message repeated) Out | USB | (AB/Lac)     |
| <b>E11a</b> | 16-3 | 0900 | 13117 | Mon | 536/33 Attention 59654 83368 79338 ... 53358 31512 26365 Attention (message repeated) Out | USB | (AB/Lac)     |
| <b>E11a</b> | 17-3 | 1205 | 9399  | Tue | 463/36 Attention 19660 34152 52059 ... 15542 86977 54885 Attention (message repeated) Out | USB | (AB/Lac)     |
| <b>E11a</b> | 17-3 | 1300 | 5371  | Tue | 314/33 Attention 63992 48350 75600 ... 35227 77019 97105 Attention (message repeated) Out | USB | (Lac)        |
| <b>E11a</b> | 17-3 | 1430 | 14972 | Tue | 918/35 Attention 72482 68992 66627 ... 02521 31743 90623 Attention (message repeated) Out | USB | (AB)         |

|             |      |      |       |     |                                                                                           |     |              |
|-------------|------|------|-------|-----|-------------------------------------------------------------------------------------------|-----|--------------|
| <b>E11a</b> | 18-3 | 0845 | 12202 | Wed | 710/38 Attention 47424 67562 04475 ... 93544 47701 68269 Attention (message repeated) Out | USB | (AB/Lac)     |
| <b>E11a</b> | 18-3 | 0900 | 13117 | Wed | 536/33 Attention 59654 83368 79338 ... 53358 31512 26365 Attention (message repeated) Out | USB | (AB/Lac)     |
| <b>E11a</b> | 18-3 | 1205 | 9399  | Wed | 463/36 Attention 19660 34152 52059 ... 15542 86977 54885 Attention (message repeated) Out | USB | (AB/Lac)     |
| <b>E11a</b> | 19-3 | 0720 | 8423  | Thu | 435/34 Attention 38477 00717 55265 ... 62439 96390 63480 Attention (message repeated) Out | USB | (Lac)        |
| <b>E11a</b> | 19-3 | 1300 | 5371  | Thu | 314/33 Attention 63992 48350 75600 ... 35227 77019 97105 Attention (message repeated) Out | USB | (AB)         |
| <b>E11a</b> | 19-3 | 1530 | 10330 | Thu | 260/40 Attention 44168 73020 87387 ... 79662 81723 81788 Attention (message repeated) Out | USB | (AB)         |
| <b>E11a</b> | 19-3 | 2000 | 5737  | Thu | 525/32 Attention 12904 99895 55020 ... 86044 29575 51255 Attention (message repeated) Out | USB | (AB)         |
| <b>E11a</b> | 20-3 | 0600 | 8680  | Fri | 359/35 Attention 07373 82579 06705 ... 13170 23676 48628 Attention (message repeated) Out | USB | (AB)         |
| <b>E11a</b> | 20-3 | 0720 | 8423  | Fri | 435/34 Attention 38477 00717 55265 ... 62439 96390 63480 Attention (message repeated) Out | USB | (Lac)        |
| <b>E11a</b> | 21-3 | 1430 | 14972 | Sat | 918/35 Attention 72482 68992 66627 ... 02521 31743 90623 Attention (message repeated) Out | USB | (AB)         |
| <b>E11a</b> | 22-3 | 0600 | 8680  | Sun | 359/35 Attention 07373 82579 06705 ... 13170 23676 48628 Attention (message repeated) Out | USB | (AB)         |
| <b>E11a</b> | 22-3 | 2000 | 5737  | Sun | 525/32 Attention 12904 99895 55020 ... 86044 29575 51255 Attention (message repeated) Out | USB | (AB)         |
| <b>E11a</b> | 23-3 | 0830 | 20170 | Mon | 184/36 Attention 89200 02870 67999 ... 20688 40229 06960 Attention (message repeated) Out | USB | (AB-POL/Lac) |
| <b>E11a</b> | 23-3 | 1045 | 12385 | Mon | 697/36 Attention 26287 43338 03144 ... 45088 45911 50741 Attention (message repeated) Out | USB | (AB/Lac)     |
| <b>E11a</b> | 23-3 | 1745 | 13470 | Mon | 242/31 Attention 25534 47959 15979 ... 00569 01140 09737 Attention (message repeated) Out | USB | (AB-POL)     |
| <b>E11a</b> | 24-3 | 0715 | 14666 | Tue | 636/37 Attention 11060 30047 99766 ... 80668 70486 72992 Attention (message repeated) Out | USB | (AB-POL/Lac) |
| <b>E11a</b> | 24-3 | 0845 | 18168 | Tue | 154/36 Attention 67106 13501 10811 ... 66477 34334 44251 Attention (message repeated) Out | USB | (AB-POL/Lac) |
| <b>E11a</b> | 24-3 | 1230 | 12530 | Tue | 333/39 Attention 74763 09889 00717 ... 82128 55347 98168 Attention (message repeated) Out | USB | (AB/Lac)     |
| <b>E11a</b> | 24-3 | 1605 | 5176  | Tue | 237/39 Attention 42805 95569 78625 ... 44987 15092 25599 Attention (message repeated) Out | USB | (AB/Lac)     |
| <b>E11a</b> | 25-3 | 0930 | 6940  | Wed | 270/39 Attention 65402 65544 30686 ... 04719 25403 81849 Attention (message repeated) Out | USB | (AB/Lac)     |
| <b>E11a</b> | 25-3 | 1045 | 12385 | Wed | 691/36 Attention 51134 31746 48346 ... 93607 22744 10646 Attention (message repeated) Out | USB | (AB)         |
| <b>E11a</b> | 25-3 | 1610 | 4181  | Wed | 392/32 Attention 90509 43964 45478 ... 66827 78064 34962 Attention (message repeated) Out | USB | (AB/Lac)     |
| <b>E11a</b> | 26-3 | 0845 | 18168 | Thu | 154/36 Attention 67106 13501 10811 ... 66477 34334 44251 Attention (message repeated) Out | USB | (AB/Lac)     |
| <b>E11a</b> | 26-3 | 0930 | 6940  | Thu | 270/39 Attention 65402 65544 30686 ... 04719 25403 81849 Attention (message repeated) Out | USB | (AB/Lac)     |

|             |      |      |         |     |                                                                                                        |                 |          |
|-------------|------|------|---------|-----|--------------------------------------------------------------------------------------------------------|-----------------|----------|
|             |      |      |         |     | repeated) Out                                                                                          |                 |          |
| <b>E11a</b> | 26-3 | 1230 | 12530   | Thu | 333/39 Attention 74763 09889 00717 ... 82128 55347 98168 Attention (message repeated) Out              | USB             | (AB/Lac) |
| <b>E11a</b> | 27-3 | 0715 | 14666   | Fri | 636/37 Attention 11060 30047 99766 ... 80668 70486 72992 Attention (message repeated) Out              | USB             | (AB/Lac) |
| <b>E11a</b> | 27-3 | 0830 | 20170   | Fri | 185/36 Attention 99622 62797 96570 ... 32037 45419 74816 Attention (message repeated) Out              | USB             | (AB/Lac) |
| <b>E11a</b> | 28-3 | 0700 | 9079    | Sat | 491/34 Attention 84760 73913 86228 ... 42900 83656 12616 Attention (message repeated) Out              | USB             | (AB)     |
| <b>E11a</b> | 28-3 | 1610 | 4181    | Sat | 392/32 Attention 90509 43964 45478 ... 66827 78064 34962 Attention (message repeated) Out              | USB             | (AB)     |
| <b>E11a</b> | 29-3 | 0700 | 9079    | Sun | 491/34 Attention 84760 73913 86228 ... 42900 83656 12616 Attention (message repeated) Out              | USB             | (AB)     |
| <b>E11a</b> | 29-3 | 1605 | 5176    | Sun | 237/39 Attention 42805 95569 78625 ... 44987 15092 25599 Attention (message repeated) Out              | USB             | (AB)     |
| <b>E11a</b> | 29-3 | 1745 | 13470   | Sun | 247/31 Attention 48652 64442 94998 ... 10526 81352 93209 Attention message repeated) Out (new message) | USB             | (AB)     |
| <b>E11a</b> | 30-3 | 1900 | 7317    | Mon | 646/31 Attention 19622 87333 80735 .. 64231 16759 99509 Attention (message repeated) Out               | USB             | (AB/Lac) |
| <b>EGY</b>  | 5-3  | 0657 | 14623.7 | Thu | MFA Cairo clg TVQX: Egyptian embassy Tehran                                                            | SITOR-A 100/170 | (AB)     |
| <b>EGY</b>  | 6-3  | 1147 | 14623.7 | Fri | MFA Cairo clg OOVX: Egyptian embassy Ankara                                                            | SITOR-A 100/170 | (AB)     |
| <b>EGY</b>  | 6-3  | 1149 | 14622   | Fri | 99901: MFA Cairo wkg 44401> Egyptian embassy Ankara                                                    | CODAN           | (AB)     |
| <b>EGY</b>  | 8-3  | 0822 | 14623.7 | Sun | MFA Cairo clg TVQX: Egyptian embassy Tehran                                                            | SITOR-A 100/170 | (AB)     |
| <b>EGY</b>  | 8-3  | 0843 | 14623.7 | Sun | MFA Cairo clg TVQX: Egyptian embassy Tehran                                                            | SITOR-A 100/170 | (AB)     |
| <b>EGY</b>  | 8-3  | 0903 | 14623.7 | Sun | MFA Cairo clg TVQX: Egyptian embassy Tehran                                                            | SITOR-A 100/170 | (AB)     |
| <b>EGY</b>  | 10-3 | 0910 | 14623.7 | Tue | MFA Cairo clg TVQX: Egyptian embassy Tehran (off 0917z)                                                | SITOR-A 100/170 | (AB)     |
| <b>EGY</b>  | 10-3 | 0919 | 14623.7 | Tue | MFA Cairo clg TVQX: Egyptian embassy Tehran                                                            | SITOR-A 100/170 | (AB)     |
| <b>EGY</b>  | 11-3 | 1234 | 19806.7 | Wed | MFA Cairo clg KKXT: Egyptian embassy Nairobi                                                           | SITOR-A 100/170 | (AB)     |
| <b>EGY</b>  | 11-3 | 1244 | 14356.7 | Wed | MFA Cairo clg QQTX: Egyptian embassy Prague                                                            | SITOR-A 100/170 | (AB)     |
| <b>EGY</b>  | 11-3 | 1245 | 14355   | Wed | 99903: MFA Cairo wkg 22201: Egyptian embassy Prague                                                    | CODAN           | (AB)     |
| <b>EGY</b>  | 11-3 | 1338 | 20055   | Wed | 99901: MFA Cairo wkg 33309: Egyptian embassy Lagos                                                     | CODAN           | (AB)     |
| <b>EGY</b>  | 11-3 | 1338 | 20056.7 | Wed | MFA Cairo clg KKVA: Egyptian embassy Lagos                                                             | SITOR-A 100/170 | (AB)     |
| <b>EGY</b>  | 11-3 | 1447 | 18056.7 | Wed | Unid Egyptian embassy clg SSTB: MFA Cairo                                                              | SITOR-A 100/170 | (AB)     |
| <b>EGY</b>  | 11-3 | 1448 | 18055   | Wed | Unid Egyptian embassy wkg MFA Cairo                                                                    | CODAN           | (AB)     |
| <b>EGY</b>  | 12-3 | 1413 | 18051.7 | Thu | MFA Cairo clg TVQX: Egyptian embassy Tehran                                                            | SITOR-A 100/170 | (AB)     |
| <b>EGY</b>  | 12-3 | 1428 | 18050   | Thu | 99901: MFA Cairo wkg 44405: Egyptian embassy Islamabad                                                 | CODAN           | (AB)     |
| <b>EGY</b>  | 12-3 | 1458 | 18051.7 | Thu | MFA Cairo clg OOVX: Egyptian embassy New Delhi                                                         | SITOR-A 100/170 | (AB)     |
| <b>EGY</b>  | 12-3 | 1508 | 20056.7 | Thu | MFA Cairo msg to KKVE: Egyptian embassy Bamako                                                         | SITOR-A 100/170 | (AB)     |
| <b>EGY</b>  | 16-3 | 1202 | 18051.7 | Mon | Egyptian diplo i.p. PDKJ KDDR ODSW KB RGK WDSF HUXD KY KY followed by CODAN traffic                    | SITOR-A 100/170 | (AB)     |
| <b>EGY</b>  | 28-3 | 0938 | 16026.7 | Sat | MFA Cairo wkg unid embassy on 18025 kHz                                                                | SITOR-A 100/170 | (AB)     |
| <b>EGY</b>  | 28-3 | 0938 | 18026.7 | Sat | Unid Egyptian embassy clg SSTS: MFA Cairo (QX 16025 kHz)                                               | SITOR-A 100/170 | (AB)     |
| <b>EGY</b>  | 28-3 | 1006 | 18025   | Sat | Unid embassy wkg 99903: MFA Cairo                                                                      | CODAN           | (AB)     |
| <b>F01</b>  | 2-3  | 1015 | 10861   | Mon | Message 72                                                                                             | FSK 200/500     | (AB)     |
| <b>F01</b>  | 2-3  | 1025 | 8187    | Mon | Message 72                                                                                             | FSK 200/500     | (AB)     |
| <b>F01</b>  | 2-3  | 1035 | 6939    | Mon | Message 72                                                                                             | FSK 200/500     | (AB)     |
| <b>F01</b>  | 3-3  | 1015 | 10861   | Tue | Messages 72 and 74                                                                                     | FSK 200/500     | (AB)     |
| <b>F01</b>  | 3-3  | 1025 | 8187    | Tue | Messages 72 and 74                                                                                     | FSK 200/500     | (AB)     |

|     |      |      |       |     |                                                        |             |      |
|-----|------|------|-------|-----|--------------------------------------------------------|-------------|------|
| F01 | 3-3  | 1035 | 6939  | Tue | Messages 72 and 74                                     | FSK 200/500 | (AB) |
| F01 | 4-3  | 1015 | 10861 | Wed | Message 75                                             | FSK 200/500 | (AB) |
| F01 | 4-3  | 1025 | 8187  | Wed | Message 75                                             | FSK 200/500 | (AB) |
| F01 | 4-3  | 1035 | 6939  | Wed | Message 75                                             | FSK 200/500 | (AB) |
| F01 | 5-3  | 1015 | 10861 | Thu | Messages 76 and 77                                     | FSK 200/500 | (AB) |
| F01 | 5-3  | 1025 | 8187  | Thu | Messages 76 and 77                                     | FSK 200/500 | (AB) |
| F01 | 5-3  | 1035 | 6939  | Thu | Messages 76 and 77                                     | FSK 200/500 | (AB) |
| F01 | 6-3  | 1015 | 10861 | Fri | 00000 00000 00000 00000 +++++ +++++                    | FSK 200/500 | (AB) |
| F01 | 6-3  | 1025 | 8187  | Fri | 00000 00000 00000 00000 +++++ +++++                    | FSK 200/500 | (AB) |
| F01 | 6-3  | 1035 | 6939  | Fri | 00000 00000 00000 00000 +++++ +++++                    | FSK 200/500 | (AB) |
| F01 | 9-3  | 1015 | 10861 | Mon | Message 77                                             | FSK 200/500 | (AB) |
| F01 | 9-3  | 1025 | 8187  | Mon | Message 77                                             | FSK 200/500 | (AB) |
| F01 | 9-3  | 1035 | 6939  | Mon | Message 77                                             | FSK 200/500 | (AB) |
| F01 | 10-3 | 1015 | 10861 | Tue | Messages 79 and 80                                     | FSK 200/500 | (AB) |
| F01 | 10-3 | 1025 | 8187  | Tue | Messages 79 and 80                                     | FSK 200/500 | (AB) |
| F01 | 10-3 | 1035 | 6939  | Tue | Messages 79 and 80                                     | FSK 200/500 | (AB) |
| F01 | 11-3 | 1015 | 10861 | Wed | Message 81                                             | FSK 200/500 | (AB) |
| F01 | 11-3 | 1025 | 8187  | Wed | Message 81                                             | FSK 200/500 | (AB) |
| F01 | 11-3 | 1035 | 6939  | Wed | Message 81                                             | FSK 200/500 | (AB) |
| F01 | 12-3 | 1015 | 10861 | Thu | Messages 82 and 83                                     | FSK 200/500 | (AB) |
| F01 | 12-3 | 1025 | 8187  | Thu | Messages 82 and 83                                     | FSK 200/500 | (AB) |
| F01 | 12-3 | 1035 | 6939  | Thu | Messages 82 and 83                                     | FSK 200/500 | (AB) |
| F01 | 13-3 | 1015 | 10861 | Fri | 00000 +++++ +++++                                      | FSK 200/500 | (AB) |
| F01 | 13-3 | 1025 | 8187  | Fri | 00000 +++++ +++++                                      | FSK 200/500 | (AB) |
| F01 | 13-3 | 1035 | 6939  | Fri | 00000 +++++ +++++                                      | FSK 200/500 | (AB) |
| F01 | 16-3 | 1015 | 10861 | Mon | Message 84. Wrong 100bd speed. Off in mid msg at 1025z | FSK 100/500 | (AB) |
| F01 | 16-3 | 1025 | 8187  | Mon | Message 84. Wrong 100bd speed                          | FSK 100/500 | (AB) |
| F01 | 16-3 | 1035 | 6939  | Mon | Message 84. Wrong 100bd speed                          | FSK 100/500 | (AB) |
| F01 | 17-3 | 1015 | 10861 | Tue | Messages 85 and 86                                     | FSK 200/500 | (AB) |
| F01 | 17-3 | 1025 | 8187  | Tue | Messages 85 and 86                                     | FSK 200/500 | (AB) |
| F01 | 17-3 | 1035 | 6939  | Tue | Messages 85 and 86                                     | FSK 200/500 | (AB) |
| F01 | 18-3 | 1015 | 10861 | Wed | Message 87                                             | FSK 200/500 | (AB) |
| F01 | 18-3 | 1025 | 8187  | Wed | Message 87                                             | FSK 200/500 | (AB) |
| F01 | 18-3 | 1035 | 6939  | Wed | Message 87                                             | FSK 200/500 | (AB) |
| F01 | 19-3 | 1015 | 10861 | Thu | Messages 88 and 89                                     | FSK 200/500 | (AB) |
| F01 | 19-3 | 1025 | 8187  | Thu | Messages 88 and 89                                     | FSK 200/500 | (AB) |
| F01 | 19-3 | 1035 | 6939  | Thu | Messages 88 and 89                                     | FSK 200/500 | (AB) |
| F01 | 20-3 | 1015 | 10861 | Fri | 00000 +++++ +++++                                      | FSK 200/500 | (AB) |
| F01 | 20-3 | 1025 | 8187  | Fri | 00000 +++++ +++++                                      | FSK 200/500 | (AB) |
| F01 | 20-3 | 1035 | 6939  | Fri | 00000 +++++ +++++                                      | FSK 200/500 | (AB) |
| F01 | 23-3 | 1015 | 10861 | Mon | Message 90                                             | FSK 200/500 | (AB) |
| F01 | 23-3 | 1025 | 8187  | Mon | Message 90                                             | FSK 200/500 | (AB) |
| F01 | 23-3 | 1035 | 6939  | Mon | Message 90                                             | FSK 200/500 | (AB) |
| F01 | 24-3 | 1015 | 10861 | Tue | Messages 91 and 92                                     | FSK 200/500 | (AB) |
| F01 | 24-3 | 1025 | 8187  | Tue | Messages 91 and 92                                     | FSK 200/500 | (AB) |
| F01 | 24-3 | 1035 | 6939  | Tue | Messages 91 and 92                                     | FSK 200/500 | (AB) |
| F01 | 24-3 | 1100 | 10826 | Tue | Message 32                                             | FSK 200/500 | (PY) |



|     |      |      |       |     |                            |                     |            |
|-----|------|------|-------|-----|----------------------------|---------------------|------------|
| F01 | 24-3 | 1110 | 13379 | Tue | Message 32                 | FSK 200/500         | (PY)       |
| F01 | 24-3 | 1120 | 16296 | Tue | Message 32                 | FSK 200/500         | (PY)       |
| F01 | 25-3 | 1015 | 10861 | Wed | Message 93                 | FSK 200/500         | (AB)       |
| F01 | 25-3 | 1025 | 8187  | Wed | Message 93                 | FSK 200/500         | (AB)       |
| F01 | 25-3 | 1035 | 6939  | Wed | Message 93                 | FSK 200/500         | (AB)       |
| F01 | 25-3 | 1100 | 10826 | Wed | Message 32                 | FSK 200/500         | (AB)       |
| F01 | 25-3 | 1110 | 13379 | Wed | Message 32                 | FSK 200/500         | (AB)       |
| F01 | 25-3 | 1120 | 16296 | Wed | Message 32                 | FSK 200/500         | (AB)       |
| F01 | 26-3 | 1015 | 10861 | Thu | Messages 94 and 95         | FSK 200/500         | (AB)       |
| F01 | 26-3 | 1025 | 8187  | Thu | Messages 94 and 95         | FSK 200/500         | (AB)       |
| F01 | 26-3 | 1035 | 6939  | Thu | Messages 94 and 95         | FSK 200/500         | (AB)       |
| F01 | 27-3 | 1015 | 10861 | Fri | 00000 +++++ +++++          | FSK 200/500         | (AB/Hiram) |
| F01 | 27-3 | 1025 | 8187  | Fri | 00000 +++++ +++++          | FSK 200/500         | (AB)       |
| F01 | 27-3 | 1035 | 6939  | Fri | 00000 +++++ +++++          | FSK 200/500         | (AB)       |
| F01 | 30-3 | 1015 | 10861 | Mon | Message 96                 | FSK 200/500         | (AB)       |
| F01 | 30-3 | 1025 | 8187  | Mon | Message 96                 | FSK 200/500         | (AB)       |
| F01 | 30-3 | 1035 | 6939  | Mon | Message 96                 | FSK 200/500         | (AB)       |
| F01 | 31-3 | 1015 | 10861 | Tue | Messages 97 and 98         | FSK 200/500         | (AB)       |
| F01 | 31-3 | 1025 | 8187  | Tue | Messages 97 and 98         | FSK 200/500         | (AB)       |
| F01 | 31-3 | 1035 | 6939  | Tue | Messages 97 and 98         | FSK 200/500         | (AB)       |
| F02 | 3-3  | 0749 | 14983 | Tue | Russian domestic net. Test | MFSK-4 150Bd/4000Hz | (AB)       |
| F02 | 3-3  | 0800 | 14983 | Tue | Russian domestic net       | MFSK-4 150Bd/4000Hz | (AB)       |
| F02 | 10-3 | 0741 | 14983 | Tue | Russian domestic net. Test | MFSK-4 150Bd/4000Hz | (AB)       |
| F02 | 10-3 | 0800 | 14983 | Tue | Russian domestic net       | MFSK-4 150Bd/4000Hz | (AB)       |
| F02 | 16-3 | 1317 | 9300  | Mon | Russian domestic net       | MFSK-4 150Bd/4000Hz | (AB)       |
| F02 | 17-3 | 0817 | 14983 | Tue | Russian domestic net. Test | MFSK-4 150Bd/4000Hz | (AB)       |
| F02 | 17-3 | 0830 | 14983 | Tue | Russian domestic net       | MFSK-4 150Bd/4000Hz | (AB)       |
| F02 | 24-3 | 0800 | 14983 | Tue | Russian domestic net       | MFSK-4 150Bd/4000Hz | (AB)       |
| F02 | 24-3 | 0812 | 13882 | Tue | Russian domestic net       | MFSK-4 150Bd/4000Hz | (AB)       |
| F02 | 24-3 | 0842 | 13809 | Tue | Russian domestic net       | MFSK-4 150Bd/4000Hz | (AB)       |
| F02 | 24-3 | 1038 | 14690 | Tue | Russian domestic net       | MFSK-4 150Bd/4000Hz | (AB)       |
| F02 | 24-3 | 1047 | 14690 | Tue | Russian domestic net       | MFSK-4 150Bd/4000Hz | (AB)       |
| F02 | 25-3 | 0810 | 13391 | Wed | Russian domestic net       | MFSK-4 150Bd/4000Hz | (AB)       |
| F02 | 25-3 | 0830 | 12155 | Wed | Russian domestic net       | MFSK-4 150Bd/4000Hz | (AB)       |
| F02 | 25-3 | 0930 | 13391 | Wed | Russian domestic net       | MFSK-4 150Bd/4000Hz | (AB)       |
| F02 | 25-3 | 0948 | 20875 | Wed | Russian domestic net       | MFSK-4 150Bd/4000Hz | (AB)       |
| F02 | 25-3 | 1000 | 20875 | Wed | Russian domestic net       | MFSK-4 150Bd/4000Hz | (AB)       |
| F02 | 25-3 | 1010 | 17479 | Wed | Russian domestic net       | MFSK-4 150Bd/4000Hz | (AB)       |
| F02 | 25-3 | 1024 | 17463 | Wed | Russian domestic net       | MFSK-4 150Bd/4000Hz | (AB)       |
| F02 | 25-3 | 1230 | 16333 | Wed | Russian domestic net       | MFSK-4 150Bd/4000Hz | (AB)       |
| F02 | 25-3 | 1250 | 12165 | Wed | Russian domestic net       | MFSK-4 150Bd/4000Hz | (AB)       |
| F02 | 25-3 | 1440 | 15614 | Wed | Russian domestic net       | MFSK-4 150Bd/4000Hz | (AB)       |
| F02 | 25-3 | 1452 | 13444 | Wed | Russian domestic net       | MFSK-4 150Bd/4000Hz | (AB)       |
| F02 | 25-3 | 1500 | 13444 | Wed | Russian domestic net       | MFSK-4 150Bd/4000Hz | (AB)       |
| F02 | 25-3 | 1637 | 12077 | Wed | Russian domestic net       | MFSK-4 150Bd/4000Hz | (AB)       |
| F02 | 25-3 | 1637 | 13572 | Wed | Russian domestic net       | MFSK-4 150Bd/4000Hz | (AB)       |
| F02 | 25-3 | 1651 | 12077 | Wed | Russian domestic net       | MFSK-4 150Bd/4000Hz | (AB)       |



|      |      |      |       |     |                      |                         |          |
|------|------|------|-------|-----|----------------------|-------------------------|----------|
| F02  | 31-3 | 0800 | 14983 | Tue | Russian domestic net | MFSK-4 150Bd/4000Hz     | (AB)     |
| F02  | 31-3 | 1008 | 17467 | Tue | Russian domestic net | MFSK-4 150Bd/4000Hz     | (AB)     |
| F02  | 31-3 | 1023 | 17467 | Tue | Russian domestic net | MFSK-4 150Bd/4000Hz     | (AB)     |
| F02  | 31-3 | 1024 | 15843 | Tue | Russian domestic net | MFSK-4 150Bd/4000Hz     | (AB)     |
| F02  | 31-3 | 1036 | 12219 | Tue | Russian domestic net | MFSK-4 150Bd/4000Hz     | (AB)     |
| F02  | 31-3 | 1036 | 15843 | Tue | Russian domestic net | MFSK-4 150Bd/4000Hz     | (AB)     |
| F02  | 31-3 | 1045 | 12219 | Tue | Russian domestic net | MFSK-4 150Bd/4000Hz     | (AB)     |
| F03j | 3-3  | 0835 | 18030 | Tue | Polish intel.        | FSK-4 100Bd/400Hz/448bp | (AB)     |
| F03j | 3-3  | 0840 | 18030 | Tue | Polish intel.        | FSK-4 100Bd/400Hz/448bp | (AB)     |
| F03j | 3-3  | 1500 | 11486 | Tue | Polish intel.        | FSK-4 100Bd/400Hz/448bp | (AB)     |
| F03j | 3-3  | 1505 | 11486 | Tue | Polish intel.        | FSK-4 100Bd/400Hz/448bp | (AB)     |
| F03j | 4-3  | 0615 | 21854 | Wed | Polish intel.        | FSK-4 100Bd/400Hz/448bp | (AB-POL) |
| F03j | 4-3  | 0620 | 21854 | Wed | Polish intel.        | FSK-4 100Bd/400Hz/448bp | (AB-POL) |
| F03j | 4-3  | 0630 | 19515 | Wed | Polish intel.        | FSK-4 100Bd/400Hz/448bp | (AB-POL) |
| F03j | 4-3  | 0635 | 19515 | Wed | Polish intel.        | FSK-4 100Bd/400Hz/448bp | (AB-POL) |
| F03j | 5-3  | 0635 | 24261 | Thu | Polish intel.        | FSK-4 100Bd/400Hz/448bp | (AB)     |
| F03j | 5-3  | 0640 | 24261 | Thu | Polish intel.        | FSK-4 100Bd/400Hz/448bp | (AB)     |
| F03j | 5-3  | 0700 | 9339  | Thu | Polish intel.        | FSK-4 100Bd/400Hz/448bp | (AB)     |
| F03j | 5-3  | 0705 | 9339  | Thu | Polish intel.        | FSK-4 100Bd/400Hz/448bp | (AB)     |
| F03j | 5-3  | 0835 | 18030 | Thu | Polish intel.        | FSK-4 100Bd/400Hz/448bp | (AB)     |
| F03j | 5-3  | 0840 | 18030 | Thu | Polish intel.        | FSK-4 100Bd/400Hz/448bp | (AB)     |
| F03j | 6-3  | 0700 | 9339  | Fri | Polish intel.        | FSK-4 100Bd/400Hz/448bp | (AB)     |
| F03j | 6-3  | 0705 | 9339  | Fri | Polish intel.        | FSK-4 100Bd/400Hz/448bp | (AB)     |
| F03j | 6-3  | 1500 | 11486 | Fri | Polish intel.        | FSK-4 100Bd/400Hz/448bp | (AB)     |
| F03j | 6-3  | 1505 | 11486 | Fri | Polish intel.        | FSK-4 100Bd/400Hz/448bp | (AB)     |
| F03j | 10-3 | 0635 | 24261 | Tue | Polish intel.        | FSK-4 100Bd/400Hz/448bp | (AB)     |
| F03j | 10-3 | 0640 | 24261 | Tue | Polish intel.        | FSK-4 100Bd/400Hz/448bp | (AB)     |
| F03j | 10-3 | 0835 | 18030 | Tue | Polish intel.        | FSK-4 100Bd/400Hz/448bp | (AB)     |
| F03j | 10-3 | 0840 | 18030 | Tue | Polish intel.        | FSK-4 100Bd/400Hz/448bp | (AB)     |
| F03j | 10-3 | 1500 | 11486 | Tue | Polish intel.        | FSK-4 100Bd/400Hz/448bp | (AB)     |
| F03j | 10-3 | 1505 | 11486 | Tue | Polish intel.        | FSK-4 100Bd/400Hz/448bp | (AB)     |
| F03j | 11-3 | 0615 | 21854 | Wed | Polish intel.        | FSK-4 100Bd/400Hz/448bp | (AB-POL) |
| F03j | 11-3 | 0620 | 21854 | Wed | Polish intel.        | FSK-4 100Bd/400Hz/448bp | (AB-POL) |
| F03j | 11-3 | 0630 | 19515 | Wed | Polish intel.        | FSK-4 100Bd/400Hz/448bp | (AB-POL) |
| F03j | 11-3 | 0635 | 19515 | Wed | Polish intel.        | FSK-4 100Bd/400Hz/448bp | (AB-POL) |
| F03j | 12-3 | 0635 | 24261 | Thu | Polish intel.        | FSK-4 100Bd/400Hz/448bp | (AB)     |
| F03j | 12-3 | 0640 | 24261 | Thu | Polish intel.        | FSK-4 100Bd/400Hz/448bp | (AB)     |
| F03j | 12-3 | 0700 | 9339  | Thu | Polish intel.        | FSK-4 100Bd/400Hz/448bp | (AB)     |
| F03j | 12-3 | 0705 | 9339  | Thu | Polish intel.        | FSK-4 100Bd/400Hz/448bp | (AB)     |
| F03j | 12-3 | 0835 | 18030 | Thu | Polish intel.        | FSK-4 100Bd/400Hz/448bp | (AB)     |
| F03j | 12-3 | 0840 | 18030 | Thu | Polish intel.        | FSK-4 100Bd/400Hz/448bp | (AB)     |
| F03j | 13-3 | 0700 | 9339  | Fri | Polish intel.        | FSK-4 100Bd/400Hz/448bp | (AB)     |
| F03j | 13-3 | 0705 | 9339  | Fri | Polish intel.        | FSK-4 100Bd/400Hz/448bp | (AB)     |
| F03j | 13-3 | 1500 | 11486 | Fri | Polish intel.        | FSK-4 100Bd/400Hz/448bp | (AB)     |
| F03j | 13-3 | 1505 | 11486 | Fri | Polish intel.        | FSK-4 100Bd/400Hz/448bp | (AB)     |
| F03j | 17-3 | 0615 | 12229 | Tue | No transmission      | FSK-4 100Bd/400Hz/448bp | (AB)     |
| F03j | 17-3 | 0620 | 12229 | Tue | No transmission      | FSK-4 100Bd/400Hz/448bp | (AB)     |

|      |      |      |       |     |                 |                         |          |
|------|------|------|-------|-----|-----------------|-------------------------|----------|
| F03j | 17-3 | 0635 | 24261 | Tue | No transmission | FSK-4 100Bd/400Hz/448bp | (AB)     |
| F03j | 17-3 | 0640 | 24261 | Tue | No transmission | FSK-4 100Bd/400Hz/448bp | (AB)     |
| F03j | 17-3 | 0835 | 18030 | Tue | Polish intel.   | FSK-4 100Bd/400Hz/448bp | (AB)     |
| F03j | 17-3 | 0840 | 18030 | Tue | Polish intel.   | FSK-4 100Bd/400Hz/448bp | (AB)     |
| F03j | 17-3 | 1500 | 11486 | Tue | Polish intel.   | FSK-4 100Bd/400Hz/448bp | (AB)     |
| F03j | 17-3 | 1505 | 11486 | Tue | Polish intel.   | FSK-4 100Bd/400Hz/448bp | (AB)     |
| F03j | 18-3 | 0615 | 21854 | Wed | Polish intel.   | FSK-4 100Bd/400Hz/448bp | (AB-POL) |
| F03j | 18-3 | 0620 | 21854 | Wed | Polish intel.   | FSK-4 100Bd/400Hz/448bp | (AB-POL) |
| F03j | 18-3 | 0630 | 19515 | Wed | Polish intel.   | FSK-4 100Bd/400Hz/448bp | (AB-POL) |
| F03j | 18-3 | 0635 | 19515 | Wed | Polish intel.   | FSK-4 100Bd/400Hz/448bp | (AB-POL) |
| F03j | 19-3 | 0615 | 10620 | Thu | Polish intel.   | FSK-4 100Bd/400Hz/448bp | (AB)     |
| F03j | 19-3 | 0620 | 10620 | Thu | Polish intel.   | FSK-4 100Bd/400Hz/448bp | (AB)     |
| F03j | 19-3 | 0700 | 9339  | Thu | Not heard       | FSK-4 100Bd/400Hz/448bp | (AB)     |
| F03j | 19-3 | 0705 | 9339  | Thu | Not heard       | FSK-4 100Bd/400Hz/448bp | (AB)     |
| F03j | 19-3 | 0835 | 18030 | Thu | Polish intel.   | FSK-4 100Bd/400Hz/448bp | (AB)     |
| F03j | 19-3 | 0840 | 18030 | Thu | Polish intel.   | FSK-4 100Bd/400Hz/448bp | (AB)     |
| F03j | 20-3 | 0700 | 9339  | Fri | Not heard       | FSK-4 100Bd/400Hz/448bp | (AB)     |
| F03j | 20-3 | 0705 | 9339  | Fri | Not heard       | FSK-4 100Bd/400Hz/448bp | (AB)     |
| F03j | 20-3 | 1500 | 11486 | Fri | Polish intel.   | FSK-4 100Bd/400Hz/448bp | (AB)     |
| F03j | 20-3 | 1505 | 11486 | Fri | Polish intel.   | FSK-4 100Bd/400Hz/448bp | (AB)     |
| F03j | 23-3 | 0615 | 21854 | Mon | Polish intel.   | FSK-4 100Bd/400Hz/448bp | (AB-POL) |
| F03j | 23-3 | 0620 | 21854 | Mon | Polish intel.   | FSK-4 100Bd/400Hz/448bp | (AB-POL) |
| F03j | 23-3 | 0630 | 19515 | Mon | Polish intel.   | FSK-4 100Bd/400Hz/448bp | (AB)     |
| F03j | 23-3 | 0635 | 19515 | Mon | Polish intel.   | FSK-4 100Bd/400Hz/448bp | (AB)     |
| F03j | 24-3 | 0615 | 10620 | Tue | Polish intel.   | FSK-4 100Bd/400Hz/448bp | (AB)     |
| F03j | 24-3 | 0620 | 10620 | Tue | Polish intel.   | FSK-4 100Bd/400Hz/448bp | (AB)     |
| F03j | 24-3 | 0835 | 18030 | Tue | Polish intel.   | FSK-4 100Bd/400Hz/448bp | (AB)     |
| F03j | 24-3 | 0840 | 18030 | Tue | Polish intel.   | FSK-4 100Bd/400Hz/448bp | (AB)     |
| F03j | 24-3 | 1500 | 11486 | Tue | Polish intel.   | FSK-4 100Bd/400Hz/448bp | (AB)     |
| F03j | 24-3 | 1505 | 11486 | Tue | Polish intel.   | FSK-4 100Bd/400Hz/448bp | (AB)     |
| F03j | 25-3 | 0615 | 21854 | Wed | Polish intel.   | FSK-4 100Bd/400Hz/448bp | (AB-POL) |
| F03j | 25-3 | 0620 | 21854 | Wed | Polish intel.   | FSK-4 100Bd/400Hz/448bp | (AB-POL) |
| F03j | 26-3 | 0615 | 10620 | Thu | Polish intel.   | FSK-4 100Bd/400Hz/448bp | (AB)     |
| F03j | 26-3 | 0620 | 10620 | Thu | Polish intel.   | FSK-4 100Bd/400Hz/448bp | (AB)     |
| F03j | 26-3 | 0835 | 18030 | Thu | Polish intel.   | FSK-4 100Bd/400Hz/448bp | (AB)     |
| F03j | 26-3 | 0840 | 18030 | Thu | Polish intel.   | FSK-4 100Bd/400Hz/448bp | (AB)     |
| F03j | 27-3 | 1500 | 11486 | Fri | Polish intel.   | FSK-4 100Bd/400Hz/448bp | (AB)     |
| F03j | 27-3 | 1505 | 11486 | Fri | Polish intel.   | FSK-4 100Bd/400Hz/448bp | (AB)     |
| F03j | 30-3 | 0615 | 21854 | Mon | Polish intel.   | FSK-4 100Bd/400Hz/448bp | (AB-POL) |
| F03j | 30-3 | 0620 | 21854 | Mon | Polish intel.   | FSK-4 100Bd/400Hz/448bp | (AB-POL) |
| F03j | 30-3 | 0630 | 19515 | Mon | Polish intel.   | FSK-4 100Bd/400Hz/448bp | (AB)     |
| F03j | 30-3 | 0635 | 19515 | Mon | Polish intel.   | FSK-4 100Bd/400Hz/448bp | (AB)     |
| F03j | 31-3 | 0615 | 10620 | Tue | Polish intel.   | FSK-4 100Bd/400Hz/448bp | (AB)     |
| F03j | 31-3 | 0620 | 10620 | Tue | Polish intel.   | FSK-4 100Bd/400Hz/448bp | (AB)     |
| F03j | 31-3 | 0835 | 18030 | Tue | Polish intel.   | FSK-4 100Bd/400Hz/448bp | (AB)     |
| F03j | 31-3 | 0840 | 18030 | Tue | Polish intel.   | FSK-4 100Bd/400Hz/448bp | (AB)     |
| F03j | 31-3 | 1500 | 11486 | Tue | Polish intel.   | FSK-4 100Bd/400Hz/448bp | (AB)     |

|             |      |      |       |     |               |                         |      |
|-------------|------|------|-------|-----|---------------|-------------------------|------|
| <b>F03j</b> | 31-3 | 1505 | 11486 | Tue | Polish intel. | FSK-4 100Bd/400Hz/448bp | (AB) |
| <b>F03l</b> | 2-3  | 0615 | 19515 | Mon | Polish intel. | QPSK 100Bd/464bp        | (AB) |
| <b>F03l</b> | 2-3  | 0620 | 19515 | Mon | Polish intel. | QPSK 100Bd/464bp        | (AB) |
| <b>F03l</b> | 2-3  | 0735 | 10641 | Mon | Polish intel. | QPSK 100Bd/464bp        | (AB) |
| <b>F03l</b> | 2-3  | 0740 | 10641 | Mon | Polish intel. | QPSK 100Bd/464bp        | (AB) |
| <b>F03l</b> | 2-3  | 0810 | 25336 | Mon | Polish intel. | QPSK 100Bd/464bp        | (AB) |
| <b>F03l</b> | 2-3  | 0815 | 25336 | Mon | Polish intel. | QPSK 100Bd/464bp        | (AB) |
| <b>F03l</b> | 2-3  | 0930 | 6397  | Mon | Polish intel. | QPSK 100Bd/464bp        | (AB) |
| <b>F03l</b> | 2-3  | 0935 | 6397  | Mon | Polish intel. | QPSK 100Bd/464bp        | (AB) |
| <b>F03l</b> | 2-3  | 0950 | 13363 | Mon | Polish intel. | QPSK 100Bd/464bp        | (AB) |
| <b>F03l</b> | 2-3  | 0955 | 13363 | Mon | Polish intel. | QPSK 100Bd/464bp        | (AB) |
| <b>F03l</b> | 2-3  | 1010 | 12153 | Mon | Polish intel. | QPSK 100Bd/464bp        | (AB) |
| <b>F03l</b> | 2-3  | 1015 | 12153 | Mon | Polish intel. | QPSK 100Bd/464bp        | (AB) |
| <b>F03l</b> | 2-3  | 1830 | 7798  | Mon | Polish intel. | QPSK 100Bd/464bp        | (AB) |
| <b>F03l</b> | 2-3  | 1835 | 7798  | Mon | Polish intel. | QPSK 100Bd/464bp        | (AB) |
| <b>F03l</b> | 3-3  | 0725 | 13873 | Tue | Polish intel. | QPSK 100Bd/464bp        | (AB) |
| <b>F03l</b> | 3-3  | 0730 | 13873 | Tue | Polish intel. | QPSK 100Bd/464bp        | (AB) |
| <b>F03l</b> | 3-3  | 0920 | 18030 | Tue | Polish intel. | QPSK 100Bd/464bp        | (AB) |
| <b>F03l</b> | 3-3  | 0925 | 18030 | Tue | Polish intel. | QPSK 100Bd/464bp        | (AB) |
| <b>F03l</b> | 3-3  | 0945 | 6480  | Tue | Polish intel. | QPSK 100Bd/464bp        | (AB) |
| <b>F03l</b> | 3-3  | 0950 | 6480  | Tue | Polish intel. | QPSK 100Bd/464bp        | (AB) |
| <b>F03l</b> | 4-3  | 0800 | 18030 | Wed | Polish intel. | QPSK 100Bd/464bp        | (AB) |
| <b>F03l</b> | 4-3  | 0805 | 18030 | Wed | Polish intel. | QPSK 100Bd/464bp        | (AB) |
| <b>F03l</b> | 4-3  | 0915 | 6849  | Wed | Polish intel. | QPSK 100Bd/464bp        | (AB) |
| <b>F03l</b> | 4-3  | 0920 | 6849  | Wed | Polish intel. | QPSK 100Bd/464bp        | (AB) |
| <b>F03l</b> | 4-3  | 0950 | 13363 | Wed | Polish intel. | QPSK 100Bd/464bp        | (AB) |
| <b>F03l</b> | 4-3  | 0955 | 13363 | Wed | Polish intel. | QPSK 100Bd/464bp        | (AB) |
| <b>F03l</b> | 4-3  | 1010 | 12153 | Wed | Polish intel. | QPSK 100Bd/464bp        | (AB) |
| <b>F03l</b> | 4-3  | 1015 | 12153 | Wed | Polish intel. | QPSK 100Bd/464bp        | (AB) |
| <b>F03l</b> | 4-3  | 1030 | 14398 | Wed | Polish intel. | QPSK 100Bd/464bp        | (AB) |
| <b>F03l</b> | 4-3  | 1035 | 14398 | Wed | Polish intel. | QPSK 100Bd/464bp        | (AB) |
| <b>F03l</b> | 4-3  | 1315 | 15915 | Wed | Polish intel. | QPSK 100Bd/464bp        | (AB) |
| <b>F03l</b> | 4-3  | 1320 | 15915 | Wed | Polish intel. | QPSK 100Bd/464bp        | (AB) |
| <b>F03l</b> | 5-3  | 0725 | 13873 | Thu | Polish intel. | QPSK 100Bd/464bp        | (AB) |
| <b>F03l</b> | 5-3  | 0730 | 13873 | Thu | Polish intel. | QPSK 100Bd/464bp        | (AB) |
| <b>F03l</b> | 5-3  | 0735 | 10641 | Thu | Polish intel. | QPSK 100Bd/464bp        | (AB) |
| <b>F03l</b> | 5-3  | 0740 | 10641 | Thu | Polish intel. | QPSK 100Bd/464bp        | (AB) |
| <b>F03l</b> | 5-3  | 0915 | 6849  | Thu | Polish intel. | QPSK 100Bd/464bp        | (AB) |
| <b>F03l</b> | 5-3  | 0920 | 6849  | Thu | Polish intel. | QPSK 100Bd/464bp        | (AB) |
| <b>F03l</b> | 5-3  | 1830 | 7798  | Thu | Polish intel. | QPSK 100Bd/464bp        | (AB) |
| <b>F03l</b> | 5-3  | 1835 | 7798  | Thu | Polish intel. | QPSK 100Bd/464bp        | (AB) |
| <b>F03l</b> | 6-3  | 0810 | 25336 | Fri | Polish intel. | QPSK 100Bd/464bp        | (AB) |
| <b>F03l</b> | 6-3  | 0815 | 25336 | Fri | Polish intel. | QPSK 100Bd/464bp        | (AB) |
| <b>F03l</b> | 6-3  | 0930 | 6397  | Fri | Polish intel. | QPSK 100Bd/464bp        | (AB) |
| <b>F03l</b> | 6-3  | 0935 | 6397  | Fri | Polish intel. | QPSK 100Bd/464bp        | (AB) |
| <b>F03l</b> | 6-3  | 0945 | 6480  | Fri | Polish intel. | QPSK 100Bd/464bp        | (AB) |
| <b>F03l</b> | 6-3  | 0950 | 6480  | Fri | Polish intel. | QPSK 100Bd/464bp        | (AB) |

|      |      |      |       |     |               |                  |          |
|------|------|------|-------|-----|---------------|------------------|----------|
| F03I | 6-3  | 1315 | 15915 | Fri | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| F03I | 6-3  | 1320 | 15915 | Fri | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| F03I | 9-3  | 0615 | 19515 | Mon | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| F03I | 9-3  | 0620 | 19515 | Mon | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| F03I | 9-3  | 0735 | 10641 | Mon | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| F03I | 9-3  | 0740 | 10641 | Mon | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| F03I | 9-3  | 0810 | 25336 | Mon | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| F03I | 9-3  | 0815 | 25336 | Mon | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| F03I | 9-3  | 0930 | 6397  | Mon | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| F03I | 9-3  | 0935 | 6397  | Mon | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| F03I | 9-3  | 0950 | 13363 | Mon | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| F03I | 9-3  | 0955 | 13363 | Mon | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| F03I | 9-3  | 1010 | 12153 | Mon | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| F03I | 9-3  | 1015 | 12153 | Mon | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| F03I | 9-3  | 1030 | 14398 | Mon | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| F03I | 9-3  | 1035 | 14398 | Mon | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| F03I | 9-3  | 1830 | 7798  | Mon | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| F03I | 9-3  | 1835 | 7798  | Mon | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| F03I | 10-3 | 0725 | 13873 | Tue | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| F03I | 10-3 | 0730 | 13873 | Tue | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| F03I | 10-3 | 0810 | 15690 | Tue | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| F03I | 10-3 | 0815 | 15690 | Tue | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| F03I | 10-3 | 0920 | 18030 | Tue | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| F03I | 10-3 | 0925 | 18030 | Tue | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| F03I | 10-3 | 0945 | 6480  | Tue | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| F03I | 10-3 | 0950 | 6480  | Tue | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| F03I | 11-3 | 0800 | 18030 | Wed | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| F03I | 11-3 | 0805 | 18030 | Wed | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| F03I | 11-3 | 0915 | 6849  | Wed | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| F03I | 11-3 | 0920 | 6849  | Wed | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| F03I | 11-3 | 0950 | 13363 | Wed | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| F03I | 11-3 | 0955 | 13363 | Wed | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| F03I | 11-3 | 1010 | 12153 | Wed | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| F03I | 11-3 | 1015 | 12153 | Wed | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| F03I | 11-3 | 1030 | 14398 | Wed | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| F03I | 11-3 | 1035 | 14398 | Wed | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| F03I | 11-3 | 1315 | 15915 | Wed | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| F03I | 11-3 | 1320 | 15915 | Wed | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| F03I | 12-3 | 0725 | 13873 | Thu | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| F03I | 12-3 | 0730 | 13873 | Thu | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| F03I | 12-3 | 0735 | 10641 | Thu | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| F03I | 12-3 | 0740 | 10641 | Thu | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| F03I | 12-3 | 0915 | 6849  | Thu | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| F03I | 12-3 | 0920 | 6849  | Thu | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| F03I | 12-3 | 1830 | 7798  | Thu | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| F03I | 12-3 | 1835 | 7798  | Thu | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| F03I | 13-3 | 0810 | 25336 | Fri | Polish intel. | QPSK 100Bd/464bp | (AB-POL) |

|      |      |      |       |     |                 |                  |          |
|------|------|------|-------|-----|-----------------|------------------|----------|
| F03I | 13-3 | 0815 | 25336 | Fri | Polish intel.   | QPSK 100Bd/464bp | (AB-POL) |
| F03I | 13-3 | 0850 | 15690 | Fri | Polish intel.   | QPSK 100Bd/464bp | (AB)     |
| F03I | 13-3 | 0855 | 15690 | Fri | Polish intel.   | QPSK 100Bd/464bp | (AB)     |
| F03I | 13-3 | 0930 | 6397  | Fri | Polish intel.   | QPSK 100Bd/464bp | (AB)     |
| F03I | 13-3 | 0935 | 6397  | Fri | Polish intel.   | QPSK 100Bd/464bp | (AB)     |
| F03I | 13-3 | 0945 | 6480  | Fri | Polish intel.   | QPSK 100Bd/464bp | (AB)     |
| F03I | 13-3 | 0950 | 6480  | Fri | Polish intel.   | QPSK 100Bd/464bp | (AB)     |
| F03I | 13-3 | 1315 | 15915 | Fri | Polish intel.   | QPSK 100Bd/464bp | (AB)     |
| F03I | 13-3 | 1320 | 15915 | Fri | Polish intel.   | QPSK 100Bd/464bp | (AB)     |
| F03I | 16-3 | 0735 | 10641 | Mon | Polish intel.   | QPSK 100Bd/464bp | (AB)     |
| F03I | 16-3 | 0740 | 10641 | Mon | Polish intel.   | QPSK 100Bd/464bp | (AB)     |
| F03I | 16-3 | 0810 | 25336 | Mon | Polish intel.   | QPSK 100Bd/464bp | (AB-POL) |
| F03I | 16-3 | 0815 | 25336 | Mon | Polish intel.   | QPSK 100Bd/464bp | (AB-POL) |
| F03I | 16-3 | 0930 | 6397  | Mon | Polish intel.   | QPSK 100Bd/464bp | (AB)     |
| F03I | 16-3 | 0935 | 6397  | Mon | Polish intel.   | QPSK 100Bd/464bp | (AB)     |
| F03I | 16-3 | 0950 | 13363 | Mon | Polish intel.   | QPSK 100Bd/464bp | (AB)     |
| F03I | 16-3 | 0955 | 13363 | Mon | Polish intel.   | QPSK 100Bd/464bp | (AB)     |
| F03I | 16-3 | 1010 | 12153 | Mon | Polish intel.   | QPSK 100Bd/464bp | (AB)     |
| F03I | 16-3 | 1015 | 12153 | Mon | Polish intel.   | QPSK 100Bd/464bp | (AB)     |
| F03I | 16-3 | 1030 | 14398 | Mon | Polish intel.   | QPSK 100Bd/464bp | (AB)     |
| F03I | 16-3 | 1035 | 14398 | Mon | Polish intel.   | QPSK 100Bd/464bp | (AB)     |
| F03I | 16-3 | 1830 | 7798  | Mon | No transmission | QPSK 100Bd/464bp | (AB)     |
| F03I | 16-3 | 1835 | 7798  | Mon | No transmission | QPSK 100Bd/464bp | (AB)     |
| F03I | 17-3 | 0725 | 13873 | Tue | No transmission | QPSK 100Bd/464bp | (AB)     |
| F03I | 17-3 | 0730 | 13873 | Tue | No transmission | QPSK 100Bd/464bp | (AB)     |
| F03I | 17-3 | 0810 | 15690 | Tue | Polish intel.   | QPSK 100Bd/464bp | (AB)     |
| F03I | 17-3 | 0815 | 15690 | Tue | Polish intel.   | QPSK 100Bd/464bp | (AB)     |
| F03I | 17-3 | 0920 | 18030 | Tue | Polish intel.   | QPSK 100Bd/464bp | (AB)     |
| F03I | 17-3 | 0925 | 18030 | Tue | Polish intel.   | QPSK 100Bd/464bp | (AB)     |
| F03I | 17-3 | 0945 | 6480  | Tue | Polish intel.   | QPSK 100Bd/464bp | (AB)     |
| F03I | 17-3 | 0950 | 6480  | Tue | Polish intel.   | QPSK 100Bd/464bp | (AB)     |
| F03I | 18-3 | 0800 | 18030 | Wed | Polish intel.   | QPSK 100Bd/464bp | (AB)     |
| F03I | 18-3 | 0805 | 18030 | Wed | Polish intel.   | QPSK 100Bd/464bp | (AB)     |
| F03I | 18-3 | 0915 | 6849  | Wed | Polish intel.   | QPSK 100Bd/464bp | (AB)     |
| F03I | 18-3 | 0920 | 6849  | Wed | Polish intel.   | QPSK 100Bd/464bp | (AB)     |
| F03I | 18-3 | 0950 | 13363 | Wed | Polish intel.   | QPSK 100Bd/464bp | (AB)     |
| F03I | 18-3 | 0955 | 13363 | Wed | Polish intel.   | QPSK 100Bd/464bp | (AB)     |
| F03I | 18-3 | 1010 | 12153 | Wed | Polish intel.   | QPSK 100Bd/464bp | (AB)     |
| F03I | 18-3 | 1015 | 12153 | Wed | Polish intel.   | QPSK 100Bd/464bp | (AB)     |
| F03I | 18-3 | 1030 | 14398 | Wed | Polish intel.   | QPSK 100Bd/464bp | (AB)     |
| F03I | 18-3 | 1035 | 14398 | Wed | Polish intel.   | QPSK 100Bd/464bp | (AB)     |
| F03I | 18-3 | 1315 | 15915 | Wed | Polish intel.   | QPSK 100Bd/464bp | (AB)     |
| F03I | 18-3 | 1320 | 15915 | Wed | Polish intel.   | QPSK 100Bd/464bp | (AB)     |
| F03I | 19-3 | 0725 | 13873 | Thu | Polish intel.   | QPSK 100Bd/464bp | (AB)     |
| F03I | 19-3 | 0730 | 13873 | Thu | Polish intel.   | QPSK 100Bd/464bp | (AB)     |
| F03I | 19-3 | 0735 | 10641 | Thu | Polish intel.   | QPSK 100Bd/464bp | (AB)     |
| F03I | 19-3 | 0740 | 10641 | Thu | Polish intel.   | QPSK 100Bd/464bp | (AB)     |

|      |      |      |       |     |               |                  |          |
|------|------|------|-------|-----|---------------|------------------|----------|
| F03I | 19-3 | 0915 | 6849  | Thu | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| F03I | 19-3 | 0920 | 6849  | Thu | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| F03I | 19-3 | 1830 | 7798  | Thu | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| F03I | 19-3 | 1835 | 7798  | Thu | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| F03I | 20-3 | 0850 | 15690 | Fri | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| F03I | 20-3 | 0855 | 15690 | Fri | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| F03I | 20-3 | 0930 | 6397  | Fri | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| F03I | 20-3 | 0935 | 6397  | Fri | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| F03I | 20-3 | 0945 | 6480  | Fri | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| F03I | 20-3 | 0950 | 6480  | Fri | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| F03I | 20-3 | 1315 | 15915 | Fri | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| F03I | 20-3 | 1320 | 15915 | Fri | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| F03I | 23-3 | 0735 | 10641 | Mon | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| F03I | 23-3 | 0740 | 10641 | Mon | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| F03I | 23-3 | 0810 | 25336 | Mon | Polish intel. | QPSK 100Bd/464bp | (AB-POL) |
| F03I | 23-3 | 0815 | 25336 | Mon | Polish intel. | QPSK 100Bd/464bp | (AB-POL) |
| F03I | 23-3 | 0930 | 6397  | Mon | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| F03I | 23-3 | 0935 | 6397  | Mon | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| F03I | 23-3 | 0950 | 13363 | Mon | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| F03I | 23-3 | 0955 | 13363 | Mon | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| F03I | 23-3 | 1010 | 12153 | Mon | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| F03I | 23-3 | 1015 | 12153 | Mon | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| F03I | 23-3 | 1030 | 14398 | Mon | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| F03I | 23-3 | 1035 | 14398 | Mon | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| F03I | 23-3 | 1830 | 7798  | Mon | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| F03I | 23-3 | 1835 | 7798  | Mon | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| F03I | 24-3 | 0725 | 13873 | Tue | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| F03I | 24-3 | 0730 | 13873 | Tue | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| F03I | 24-3 | 0810 | 15690 | Tue | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| F03I | 24-3 | 0815 | 15690 | Tue | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| F03I | 24-3 | 0920 | 18030 | Tue | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| F03I | 24-3 | 0925 | 18030 | Tue | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| F03I | 25-3 | 0800 | 18030 | Wed | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| F03I | 25-3 | 0805 | 18030 | Wed | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| F03I | 25-3 | 0915 | 6849  | Wed | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| F03I | 25-3 | 0920 | 6849  | Wed | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| F03I | 25-3 | 0950 | 13363 | Wed | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| F03I | 25-3 | 0955 | 13363 | Wed | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| F03I | 25-3 | 1010 | 12153 | Wed | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| F03I | 25-3 | 1015 | 12153 | Wed | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| F03I | 25-3 | 1030 | 14398 | Wed | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| F03I | 25-3 | 1035 | 14398 | Wed | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| F03I | 25-3 | 1315 | 15915 | Wed | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| F03I | 25-3 | 1320 | 15915 | Wed | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| F03I | 26-3 | 0725 | 13873 | Thu | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| F03I | 26-3 | 0730 | 13873 | Thu | Polish intel. | QPSK 100Bd/464bp | (AB)     |
| F03I | 26-3 | 0735 | 10641 | Thu | Polish intel. | QPSK 100Bd/464bp | (AB)     |



|      |      |      |       |     |                                                                 |                  |          |
|------|------|------|-------|-----|-----------------------------------------------------------------|------------------|----------|
| F03I | 26-3 | 0740 | 10641 | Thu | Polish intel.                                                   | QPSK 100Bd/464bp | (AB)     |
| F03I | 26-3 | 0915 | 6849  | Thu | Polish intel.                                                   | QPSK 100Bd/464bp | (AB)     |
| F03I | 26-3 | 0920 | 6849  | Thu | Polish intel.                                                   | QPSK 100Bd/464bp | (AB)     |
| F03I | 26-3 | 1830 | 7798  | Thu | Polish intel.                                                   | QPSK 100Bd/464bp | (AB)     |
| F03I | 26-3 | 1835 | 7798  | Thu | Polish intel.                                                   | QPSK 100Bd/464bp | (AB)     |
| F03I | 27-3 | 0850 | 15690 | Fri | Polish intel.                                                   | QPSK 100Bd/464bp | (AB)     |
| F03I | 27-3 | 0855 | 15690 | Fri | Polish intel.                                                   | QPSK 100Bd/464bp | (AB)     |
| F03I | 27-3 | 0930 | 6397  | Fri | Polish intel.                                                   | QPSK 100Bd/464bp | (AB)     |
| F03I | 27-3 | 0935 | 6397  | Fri | Polish intel.                                                   | QPSK 100Bd/464bp | (AB)     |
| F03I | 27-3 | 0945 | 6480  | Fri | Polish intel.                                                   | QPSK 100Bd/464bp | (AB)     |
| F03I | 27-3 | 0950 | 6480  | Fri | Polish intel.                                                   | QPSK 100Bd/464bp | (AB)     |
| F03I | 27-3 | 1315 | 15915 | Fri | Polish intel.                                                   | QPSK 100Bd/464bp | (AB)     |
| F03I | 27-3 | 1320 | 15915 | Fri | Polish intel.                                                   | QPSK 100Bd/464bp | (AB)     |
| F03I | 30-3 | 0735 | 10641 | Mon | Polish intel.                                                   | QPSK 100Bd/464bp | (AB)     |
| F03I | 30-3 | 0740 | 10641 | Mon | Polish intel.                                                   | QPSK 100Bd/464bp | (AB)     |
| F03I | 30-3 | 0810 | 25336 | Mon | Polish intel.                                                   | QPSK 100Bd/464bp | (AB-POL) |
| F03I | 30-3 | 0815 | 25336 | Mon | Polish intel.                                                   | QPSK 100Bd/464bp | (AB-POL) |
| F03I | 30-3 | 0930 | 6397  | Mon | Polish intel.                                                   | QPSK 100Bd/464bp | (AB)     |
| F03I | 30-3 | 0935 | 6397  | Mon | Polish intel.                                                   | QPSK 100Bd/464bp | (AB)     |
| F03I | 30-3 | 0950 | 13363 | Mon | Polish intel.                                                   | QPSK 100Bd/464bp | (AB)     |
| F03I | 30-3 | 0955 | 13363 | Mon | Polish intel.                                                   | QPSK 100Bd/464bp | (AB)     |
| F03I | 30-3 | 1010 | 12153 | Mon | Polish intel.                                                   | QPSK 100Bd/464bp | (AB)     |
| F03I | 30-3 | 1015 | 12153 | Mon | Polish intel.                                                   | QPSK 100Bd/464bp | (AB)     |
| F03I | 30-3 | 1830 | 7798  | Mon | Polish intel.                                                   | QPSK 100Bd/464bp | (AB)     |
| F03I | 30-3 | 1835 | 7798  | Mon | Polish intel.                                                   | QPSK 100Bd/464bp | (AB)     |
| F03I | 31-3 | 0725 | 13873 | Tue | Polish intel.                                                   | QPSK 100Bd/464bp | (AB)     |
| F03I | 31-3 | 0730 | 13873 | Tue | Polish intel.                                                   | QPSK 100Bd/464bp | (AB)     |
| F03I | 31-3 | 0810 | 15690 | Tue | Polish intel.                                                   | QPSK 100Bd/464bp | (AB)     |
| F03I | 31-3 | 0810 | 15690 | Tue | Polish intel.                                                   | QPSK 100Bd/464bp | (AB)     |
| F03I | 31-3 | 0815 | 15690 | Tue | Polish intel.                                                   | QPSK 100Bd/464bp | (AB)     |
| F03I | 31-3 | 0815 | 15690 | Tue | Polish intel.                                                   | QPSK 100Bd/464bp | (AB)     |
| F03I | 31-3 | 0920 | 18030 | Tue | Polish intel.                                                   | QPSK 100Bd/464bp | (AB)     |
| F03I | 31-3 | 0925 | 18030 | Tue | Polish intel.                                                   | QPSK 100Bd/464bp | (AB)     |
| F03I | 31-3 | 0945 | 6480  | Tue | Polish intel.                                                   | QPSK 100Bd/464bp | (AB)     |
| F03I | 31-3 | 0950 | 6480  | Tue | Polish intel.                                                   | QPSK 100Bd/464bp | (AB)     |
| F06  | 1-3  | 0830 | 13547 | Sun | 11100 00000 85271 27038 01769                                   | FSK 200/1000     | (AB)     |
| F06  | 1-3  | 0840 | 11514 | Sun | 11100 00000 85271 27038 01769                                   | FSK 200/1000     | (AB)     |
| F06  | 1-3  | 0850 | 9426  | Sun | 11100 00000 85271 27038 01769                                   | FSK 200/1000     | (TM)     |
| F06  | 1-3  | 1530 | 20156 | Sun | 11166 10053 87524 01001 00049 00000 00000 00000 00000           | FSK 200/1000     | (AB)     |
| F06  | 1-3  | 1535 | 17531 | Sun | 11166 10053 87524 01001 00049 00000 00000 00000 00000           | FSK 200/1000     | (AB)     |
| F06  | 1-3  | 1540 | 13476 | Sun | 11166 10053 87524 01001 00049 00000 00000 00000 00000           | FSK 200/1000     | (AB)     |
| F06  | 2-3  | 0800 | 9074  | Mon | 11100 00000 75821 27033 00799                                   | FSK 200/1000     | (AB)     |
| F06  | 2-3  | 0810 | 7648  | Mon | 11100 00000 75821 27033 00799                                   | FSK 200/1000     | (AB)     |
| F06  | 2-3  | 0820 | 5911  | Mon | 11100 00000 75821 27033 00799                                   | FSK 200/1000     | (AB)     |
| F06  | 3-3  | 0030 | 10145 | Tue | 11166 60070 98756 23078 01519                                   | FSK 200/1000     | (TM)     |
| F06  | 3-3  | 0040 | 9055  | Tue | 11166 60070 98756 23078 01519                                   | FSK 200/1000     | (TM)     |
| F06  | 3-3  | 0700 | 10671 | Tue | 11166 70202 62147 02077 01879 and 11166 70202 61247 02078 02139 | FSK 200/1000     | (AB)     |

|     |      |      |       |     |                                                                 |              |      |
|-----|------|------|-------|-----|-----------------------------------------------------------------|--------------|------|
| F06 | 3-3  | 0710 | 8093  | Tue | 11166 70202 62147 02077 01879 and 11166 70202 61247 02078 02139 | FSK 200/1000 | (AB) |
| F06 | 3-3  | 0720 | 6879  | Tue | 11166 70202 62147 02077 01879 and 11166 70202 61247 02078 02139 | FSK 200/1000 | (AB) |
| F06 | 3-3  | 0800 | 9074  | Tue | 11100 00000 75821 27033 00799                                   | FSK 200/1000 | (AB) |
| F06 | 3-3  | 0810 | 7648  | Tue | 11100 00000 75821 27033 00799                                   | FSK 200/1000 | (AB) |
| F06 | 3-3  | 0820 | 5911  | Tue | 11100 00000 75821 27033 00799                                   | FSK 200/1000 | (AB) |
| F06 | 3-3  | 1200 | 11428 | Tue | 11166 70202 62147 02077 01879 and 11166 70202 61247 02078 02139 | FSK 200/1000 | (AB) |
| F06 | 3-3  | 1210 | 8026  | Tue | 11166 70202 62147 02077 01879 and 11166 70202 61247 02078 02139 | FSK 200/1000 | (AB) |
| F06 | 3-3  | 1220 | 6884  | Tue | 11166 70202 62147 02077 01879 and 11166 70202 61247 02078 02139 | FSK 200/1000 | (AB) |
| F06 | 3-3  | 1650 | 17455 | Tue | 11166 10053 15782 03001 00049 00000 00000 00000 00000           | FSK 200/1000 | (AB) |
| F06 | 3-3  | 1700 | 12211 | Tue | 11166 10053 15782 03001 00049 00000 00000 00000 00000           | FSK 200/1000 | (AB) |
| F06 | 3-3  | 1710 | 10173 | Tue | 11166 10053 15782 03001 00049 00000 00000 00000 00000           | FSK 200/1000 | (AB) |
| F06 | 5-3  | 0700 | 10671 | Thu | 11166 70202 04756 04080 01299 and 11166 70202 96357 04081 02639 | FSK 200/1000 | (AB) |
| F06 | 5-3  | 0710 | 8093  | Thu | 11166 70202 04756 04080 01299 and 11166 70202 96357 04081 02639 | FSK 200/1000 | (AB) |
| F06 | 5-3  | 0720 | 6879  | Thu | 11166 70202 04756 04080 01299 and 11166 70202 96357 04081 02639 | FSK 200/1000 | (AB) |
| F06 | 5-3  | 1200 | 11428 | Thu | 11166 70202 04756 04080 01299 and 11166 70202 96357 04081 02639 | FSK 200/1000 | (AB) |
| F06 | 5-3  | 1210 | 8026  | Thu | 11166 70202 04756 04080 01299 and 11166 70202 96357 04081 02639 | FSK 200/1000 | (AB) |
| F06 | 5-3  | 1220 | 6884  | Thu | 11166 70202 04756 04080 01299 and 11166 70202 96357 04081 02639 | FSK 200/1000 | (AB) |
| F06 | 5-3  | 1330 | 20219 | Thu | 11166 80214 10245 05017 00049 00000 00000 00000 00000           | FSK 200/1000 | (AB) |
| F06 | 5-3  | 1340 | 19353 | Thu | 11166 80214 10245 05017 00049 00000 00000 00000 00000           | FSK 200/1000 | (AB) |
| F06 | 5-3  | 1350 | 14375 | Thu | 11166 80214 10245 05017 00049 00000 00000 00000 00000           | FSK 200/1000 | (AB) |
| F06 | 6-3  | 0700 | 10671 | Fri | 11166 70202 21574 25825 00049 00000 00000 00000 00000           | FSK 200/1000 | (AB) |
| F06 | 6-3  | 0710 | 8093  | Fri | 11166 70202 21574 25825 00049 00000 00000 00000 00000           | FSK 200/1000 | (AB) |
| F06 | 6-3  | 0720 | 6879  | Fri | 11166 70202 21574 25825 00049 00000 00000 00000 00000           | FSK 200/1000 | (AB) |
| F06 | 7-3  | 1700 | 11567 | Sat | 11100 00000 34852 06039 02439                                   | FSK 200/1000 | (AB) |
| F06 | 7-3  | 1720 | 5913  | Sat | 11100 00000 34852 06039 02439                                   | FSK 200/1000 | (AB) |
| F06 | 8-3  | 0830 | 13547 | Sun | 11100 00000 34852 06039 02439                                   | FSK 200/1000 | (AB) |
| F06 | 8-3  | 0840 | 11514 | Sun | 11100 00000 34852 06039 02439                                   | FSK 200/1000 | (AB) |
| F06 | 8-3  | 0850 | 9426  | Sun | 11100 00000 34852 06039 02439                                   | FSK 200/1000 | (TM) |
| F06 | 8-3  | 1530 | 20156 | Sun | 11166 10053 73195 08001 00049 00000 00000 00000 00000           | FSK 200/1000 | (AB) |
| F06 | 8-3  | 1535 | 17531 | Sun | 11166 10053 73195 08001 00049 00000 00000 00000 00000           | FSK 200/1000 | (AB) |
| F06 | 8-3  | 1540 | 13476 | Sun | 11166 10053 73195 08001 00049 00000 00000 00000 00000           | FSK 200/1000 | (AB) |
| F06 | 9-3  | 0800 | 9074  | Mon | 11100 00000 21964 06034 01799                                   | FSK 200/1000 | (AB) |
| F06 | 9-3  | 0810 | 7648  | Mon | 11100 00000 21964 06034 01799                                   | FSK 200/1000 | (AB) |
| F06 | 9-3  | 0820 | 5911  | Mon | 11100 00000 21964 06034 01799                                   | FSK 200/1000 | (AB) |
| F06 | 10-3 | 0030 | 10145 | Tue | 11166 60070 98756 23078 01519                                   | FSK 200/1000 | (AB) |
| F06 | 10-3 | 0040 | 9055  | Tue | 11166 60070 98756 23078 01519                                   | FSK 200/1000 | (TM) |
| F06 | 10-3 | 0700 | 10671 | Tue | 11166 70202 96521 10083 01879 and 11166 70202 10854 10084 01739 | FSK 200/1000 | (AB) |
| F06 | 10-3 | 0710 | 8093  | Tue | 11166 70202 96521 10083 01879 and 11166 70202 10854 10084 01739 | FSK 200/1000 | (AB) |
| F06 | 10-3 | 0720 | 6879  | Tue | 11166 70202 96521 10083 01879 and 11166 70202 10854 10084 01739 | FSK 200/1000 | (AB) |
| F06 | 10-3 | 0800 | 9074  | Tue | 11100 00000 21964 06034 01799                                   | FSK 200/1000 | (AB) |
| F06 | 10-3 | 0810 | 7648  | Tue | 11100 00000 21964 06034 01799                                   | FSK 200/1000 | (AB) |
| F06 | 10-3 | 0820 | 5911  | Tue | 11100 00000 21964 06034 01799                                   | FSK 200/1000 | (AB) |
| F06 | 10-3 | 1200 | 11428 | Tue | 11166 70202 96521 10083 01879 and 11166 70202 10854 10084 01739 | FSK 200/1000 | (AB) |
| F06 | 10-3 | 1210 | 8026  | Tue | 11166 70202 96521 10083 01879 and 11166 70202 10854 10084 01739 | FSK 200/1000 | (AB) |
| F06 | 10-3 | 1220 | 6884  | Tue | 11166 70202 96521 10083 01879 and 11166 70202 10854 10084 01739 | FSK 200/1000 | (AB) |
| F06 | 10-3 | 1650 | 17455 | Tue | 11166 10053 53284 10001 00049 00000 00000 00000 00000           | FSK 200/1000 | (AB) |
| F06 | 10-3 | 1700 | 12211 | Tue | 11166 10053 53284 10001 00049 00000 00000 00000 00000           | FSK 200/1000 | (AB) |



|     |      |      |       |     |                                                                 |              |      |
|-----|------|------|-------|-----|-----------------------------------------------------------------|--------------|------|
| F06 | 10-3 | 1710 | 10173 | Tue | 11166 10053 53284 10001 00049 00000 00000 00000 00000           | FSK 200/1000 | (AB) |
| F06 | 12-3 | 0700 | 10671 | Thu | 11166 70202 41835 11086 01759 and 11166 70202 10846 11087 02039 | FSK 200/1000 | (AB) |
| F06 | 12-3 | 0710 | 8093  | Thu | 11166 70202 41835 11086 01759 and 11166 70202 10846 11087 02039 | FSK 200/1000 | (AB) |
| F06 | 12-3 | 0720 | 6879  | Thu | 11166 70202 41835 11086 01759 and 11166 70202 10846 11087 02039 | FSK 200/1000 | (AB) |
| F06 | 12-3 | 1200 | 11428 | Thu | 11166 70202 41835 11086 01759 and 11166 70202 10846 11087 02039 | FSK 200/1000 | (AB) |
| F06 | 12-3 | 1210 | 8026  | Thu | 11166 70202 41835 11086 01759 and 11166 70202 10846 11087 02039 | FSK 200/1000 | (AB) |
| F06 | 12-3 | 1220 | 6884  | Thu | 11166 70202 41835 11086 01759 and 11166 70202 10846 11087 02039 | FSK 200/1000 | (AB) |
| F06 | 12-3 | 1330 | 20219 | Thu | 11166 80214 24879 12012 00049 00000 00000 00000 00000           | FSK 200/1000 | (AB) |
| F06 | 12-3 | 1340 | 19353 | Thu | 11166 80214 24879 12012 00049 00000 00000 00000 00000           | FSK 200/1000 | (AB) |
| F06 | 12-3 | 1350 | 14375 | Thu | 11166 80214 24879 12012 00049 00000 00000 00000 00000           | FSK 200/1000 | (AB) |
| F06 | 13-3 | 0500 | 10734 | Fri | 11166 60070 98756 23078 01519                                   | FSK 200/1000 | (AB) |
| F06 | 13-3 | 0510 | 12165 | Fri | 11166 60070 98756 23078 01519                                   | FSK 200/1000 | (AB) |
| F06 | 13-3 | 0520 | 13529 | Fri | 11166 60070 98756 23078 01519                                   | FSK 200/1000 | (AB) |
| F06 | 13-3 | 0700 | 10671 | Fri | 11166 70202 48152 12006 00049 00000 00000 00000 00000           | FSK 200/1000 | (AB) |
| F06 | 13-3 | 0710 | 8093  | Fri | 11166 70202 48152 12006 00049 00000 00000 00000 00000           | FSK 200/1000 | (AB) |
| F06 | 13-3 | 0720 | 6879  | Fri | 11166 70202 48152 12006 00049 00000 00000 00000 00000           | FSK 200/1000 | (AB) |
| F06 | 14-3 | 1700 | 11567 | Sat | 11100 00000 64513 13040 01799                                   | FSK 200/1000 | (AB) |
| F06 | 14-3 | 1720 | 5913  | Sat | 11100 00000 64513 13040 01799                                   | FSK 200/1000 | (AB) |
| F06 | 15-3 | 0830 | 13547 | Sun | 11100 00000 64513 13040 01799                                   | FSK 200/1000 | (AB) |
| F06 | 15-3 | 0840 | 11514 | Sun | 11100 00000 64513 13040 01799                                   | FSK 200/1000 | (AB) |
| F06 | 15-3 | 0850 | 9426  | Sun | 11100 00000 64513 13040 01799                                   | FSK 200/1000 | (TM) |
| F06 | 15-3 | 1530 | 20156 | Sun | 11166 10053 25843 15001 00049 00000 00000 00000 00000           | FSK 200/1000 | (AB) |
| F06 | 15-3 | 1535 | 17531 | Sun | 11166 10053 25843 15001 00049 00000 00000 00000 00000           | FSK 200/1000 | (AB) |
| F06 | 15-3 | 1540 | 13476 | Sun | 11166 10053 25843 15001 00049 00000 00000 00000 00000           | FSK 200/1000 | (AB) |
| F06 | 16-3 | 0800 | 9074  | Mon | 11100 00000 67951 16035 01619                                   | FSK 200/1000 | (AB) |
| F06 | 16-3 | 0810 | 7648  | Mon | 11100 00000 67951 16035 01619                                   | FSK 200/1000 | (AB) |
| F06 | 16-3 | 0820 | 5911  | Mon | 11100 00000 67951 16035 01619                                   | FSK 200/1000 | (AB) |
| F06 | 17-3 | 0030 | 10145 | Tue | 11166 60070 98756 23078 01519                                   | FSK 200/1000 | (AB) |
| F06 | 17-3 | 0040 | 9055  | Tue | 11166 60070 98756 23078 01519                                   | FSK 200/1000 | (TM) |
| F06 | 17-3 | 0700 | 10671 | Tue | 11166 70202 57924 16089 01199 and 11166 70202 82649 16090 02359 | FSK 200/1000 | (AB) |
| F06 | 17-3 | 0710 | 8093  | Tue | 11166 70202 57924 16089 01199 and 11166 70202 82649 16090 02359 | FSK 200/1000 | (AB) |
| F06 | 17-3 | 0720 | 6879  | Tue | 11166 70202 57924 16089 01199 and 11166 70202 82649 16090 02359 | FSK 200/1000 | (AB) |
| F06 | 17-3 | 0800 | 9074  | Tue | 11100 00000 67951 16035 01619                                   | FSK 200/1000 | (AB) |
| F06 | 17-3 | 0810 | 7648  | Tue | 11100 00000 67951 16035 01619                                   | FSK 200/1000 | (AB) |
| F06 | 17-3 | 0820 | 5911  | Tue | 11100 00000 67951 16035 01619                                   | FSK 200/1000 | (AB) |
| F06 | 17-3 | 1200 | 11428 | Tue | 11166 70202 57924 16089 01199 and 11166 70202 82649 16090 02359 | FSK 200/1000 | (AB) |
| F06 | 17-3 | 1210 | 8026  | Tue | 11166 70202 57924 16089 01199 and 11166 70202 82649 16090 02359 | FSK 200/1000 | (AB) |
| F06 | 17-3 | 1220 | 6884  | Tue | 11166 70202 57924 16089 01199 and 11166 70202 82649 16090 02359 | FSK 200/1000 | (AB) |
| F06 | 17-3 | 1650 | 17455 | Tue | 11166 10053 25813 17078 00049 00000 00000 00000 00000           | FSK 200/1000 | (AB) |
| F06 | 17-3 | 1700 | 12211 | Tue | 11166 10053 25813 17078 00049 00000 00000 00000 00000           | FSK 200/1000 | (AB) |
| F06 | 17-3 | 1710 | 10173 | Tue | 11166 10053 25813 17078 00049 00000 00000 00000 00000           | FSK 200/1000 | (AB) |
| F06 | 19-3 | 0700 | 10671 | Thu | 11166 70202 34852 18092 01559 and 11166 70202 61743 18093 02579 | FSK 200/1000 | (AB) |
| F06 | 19-3 | 0710 | 8093  | Thu | 11166 70202 34852 18092 01559 and 11166 70202 61743 18093 02579 | FSK 200/1000 | (AB) |
| F06 | 19-3 | 0720 | 6879  | Thu | 11166 70202 34852 18092 01559 and 11166 70202 61743 18093 02579 | FSK 200/1000 | (AB) |
| F06 | 19-3 | 1200 | 11428 | Thu | 11166 70202 34852 18092 01559 and 11166 70202 61743 18093 02579 | FSK 200/1000 | (AB) |
| F06 | 19-3 | 1210 | 8026  | Thu | 11166 70202 34852 18092 01559 and 11166 70202 61743 18093 02579 | FSK 200/1000 | (AB) |
| F06 | 19-3 | 1220 | 6884  | Thu | 11166 70202 34852 18092 01559 and 11166 70202 61743 18093 02579 | FSK 200/1000 | (AB) |

|     |      |      |       |     |                                                                 |              |         |
|-----|------|------|-------|-----|-----------------------------------------------------------------|--------------|---------|
| F06 | 19-3 | 1330 | 20219 | Thu | 11166 80214 61285 19078 00049 00000 00000 00000 00000           | FSK 200/1000 | (AB/RL) |
| F06 | 19-3 | 1340 | 19353 | Thu | 11166 80214 61285 19078 00049 00000 00000 00000 00000           | FSK 200/1000 | (AB)    |
| F06 | 19-3 | 1350 | 14375 | Thu | 11166 80214 61285 19078 00049 00000 00000 00000 00000           | FSK 200/1000 | (AB)    |
| F06 | 20-3 | 0500 | 10734 | Fri | 11166 60070 98756 23078 01519                                   | FSK 200/1000 | (AB)    |
| F06 | 20-3 | 0510 | 12165 | Fri | 11166 60070 98756 23078 01519                                   | FSK 200/1000 | (AB)    |
| F06 | 20-3 | 0520 | 13529 | Fri | 11166 60070 98756 23078 01519                                   | FSK 200/1000 | (AB)    |
| F06 | 20-3 | 0700 | 10671 | Fri | 11166 70202 95782 20020 00049 00000 00000 00000 00000           | FSK 200/1000 | (AB)    |
| F06 | 20-3 | 0710 | 8093  | Fri | 11166 70202 95782 20020 00049 00000 00000 00000 00000           | FSK 200/1000 | (AB)    |
| F06 | 20-3 | 0720 | 6879  | Fri | 11166 70202 95782 20020 00049 00000 00000 00000 00000           | FSK 200/1000 | (AB)    |
| F06 | 21-3 | 1700 | 11567 | Sat | 11100 00000 13584 20041 01939                                   | FSK 200/1000 | (AB)    |
| F06 | 21-3 | 1720 | 5913  | Sat | 11100 00000 13584 20041 01939                                   | FSK 200/1000 | (AB)    |
| F06 | 22-3 | 0830 | 13547 | Sun | 11100 00000 13584 20041 01939                                   | FSK 200/1000 | (AB)    |
| F06 | 22-3 | 0840 | 11514 | Sun | 11100 00000 13584 20041 01939                                   | FSK 200/1000 | (AB)    |
| F06 | 22-3 | 0850 | 9426  | Sun | 11100 00000 13584 20041 01939                                   | FSK 200/1000 | (TM)    |
| F06 | 22-3 | 1530 | 20156 | Sun | Null message. Too weak to copy                                  | FSK 200/1000 | (AB)    |
| F06 | 22-3 | 1535 | 17531 | Sun | Null message. Too weak to copy                                  | FSK 200/1000 | (AB)    |
| F06 | 22-3 | 1540 | 13476 | Sun | Null message. Too weak to copy                                  | FSK 200/1000 | (AB)    |
| F06 | 23-3 | 0800 | 9074  | Mon | 11100 00000 67951 20036 02179                                   | FSK 200/1000 | (AB)    |
| F06 | 23-3 | 0810 | 7648  | Mon | 11100 00000 67951 20036 02179                                   | FSK 200/1000 | (AB)    |
| F06 | 23-3 | 0820 | 5911  | Mon | 11100 00000 67951 20036 02179                                   | FSK 200/1000 | (AB)    |
| F06 | 24-3 | 0030 | 10145 | Tue | 11166 60070 98756 23078 01519                                   | FSK 200/1000 | (AB)    |
| F06 | 24-3 | 0040 | 9055  | Tue | 11166 60070 98756 23078 01519                                   | FSK 200/1000 | (TM)    |
| F06 | 24-3 | 0050 | 7581  | Tue | 11166 60070 98756 23078 01519                                   | FSK 200/1000 | (TM)    |
| F06 | 24-3 | 0700 | 10671 | Tue | 11166 70202 62147 23095 01499 and 11166 70202 32749 23096 02139 | FSK 200/1000 | (AB)    |
| F06 | 24-3 | 0710 | 8093  | Tue | 11166 70202 62147 23095 01499 and 11166 70202 32749 23096 02139 | FSK 200/1000 | (AB)    |
| F06 | 24-3 | 0720 | 6879  | Tue | 11166 70202 62147 23095 01499 and 11166 70202 32749 23096 02139 | FSK 200/1000 | (AB)    |
| F06 | 24-3 | 0800 | 9074  | Tue | 11100 00000 67951 20036 02179                                   | FSK 200/1000 | (AB)    |
| F06 | 24-3 | 0810 | 7648  | Tue | 11100 00000 67951 20036 02179                                   | FSK 200/1000 | (AB)    |
| F06 | 24-3 | 0820 | 5911  | Tue | 11100 00000 67951 20036 02179                                   | FSK 200/1000 | (AB)    |
| F06 | 24-3 | 1030 | 13418 | Tue | 11166 30132 34952 24004 00589                                   | FSK 200/1000 | (PY)    |
| F06 | 24-3 | 1040 | 12067 | Tue | 11166 30132 34952 24004 00589                                   | FSK 200/1000 | (PY)    |
| F06 | 24-3 | 1050 | 11049 | Tue | 11166 30132 34952 24004 00589                                   | FSK 200/1000 | (PY)    |
| F06 | 24-3 | 1100 | 17516 | Tue | Active                                                          | FSK 200/1000 | (FD)    |
| F06 | 24-3 | 1200 | 11428 | Tue | 11166 70202 62147 23095 01499 and 11166 70202 32749 23096 02139 | FSK 200/1000 | (AB)    |
| F06 | 24-3 | 1200 | 15731 | Tue | Active                                                          | FSK 200/1000 | (PY)    |
| F06 | 24-3 | 1210 | 8026  | Tue | 11166 70202 62147 23095 01499 and 11166 70202 32749 23096 02139 | FSK 200/1000 | (AB)    |
| F06 | 24-3 | 1220 | 6884  | Tue | 11166 70202 62147 23095 01499 and 11166 70202 32749 23096 02139 | FSK 200/1000 | (AB)    |
| F06 | 24-3 | 1500 | 17428 | Tue | 11166 00052 96412 24022 01119                                   | FSK 200/1000 | (PY)    |
| F06 | 24-3 | 1510 | 15646 | Tue | 11166 00052 96412 24022 01119                                   | FSK 200/1000 | (PY)    |
| F06 | 24-3 | 1520 | 12153 | Tue | 11166 00052 96412 24022 01119                                   | FSK 200/1000 | (PY)    |
| F06 | 24-3 | 1540 | 11068 | Tue | 11100 90017 95317 24054 00029 56687 00000                       | FSK 200/1000 | (PY)    |
| F06 | 24-3 | 1600 | 12211 | Tue | 11166 90215 25473 24001 00449                                   | FSK 200/1000 | (PY)    |
| F06 | 24-3 | 1610 | 9236  | Tue | 11166 90215 25473 24001 00449                                   | FSK 200/1000 | (PY)    |
| F06 | 24-3 | 1620 | 7525  | Tue | 11166 90215 25473 24001 00449                                   | FSK 200/1000 | (PY)    |
| F06 | 24-3 | 1650 | 17455 | Tue | 11166 10053 82357 24001 00049 00000 00000 00000 00000           | FSK 200/1000 | (AB)    |
| F06 | 24-3 | 1700 | 12211 | Tue | 11166 10053 82357 24001 00049 00000 00000 00000 00000           | FSK 200/1000 | (AB)    |
| F06 | 24-3 | 1710 | 10173 | Tue | 11166 10053 82357 24001 00049 00000 00000 00000 00000           | FSK 200/1000 | (AB)    |

|     |      |      |       |     |                                                                                   |              |      |
|-----|------|------|-------|-----|-----------------------------------------------------------------------------------|--------------|------|
| F06 | 25-3 | 0800 | 10328 | Wed | 11166 70048 57138 25016 00599                                                     | FSK 200/1000 | (PY) |
| F06 | 25-3 | 0810 | 9420  | Wed | 11166 70048 57138 25016 00599                                                     | FSK 200/1000 | (PY) |
| F06 | 25-3 | 0820 | 7656  | Wed | 11166 70048 57138 25016 00599                                                     | FSK 200/1000 | (PY) |
| F06 | 25-3 | 1030 | 13418 | Wed | 11166 30132 34952 24004 00589                                                     | FSK 200/1000 | (AB) |
| F06 | 25-3 | 1030 | 13418 | Wed | 11166 30132 34952 24004 00589                                                     | FSK 200/1000 | (PY) |
| F06 | 25-3 | 1040 | 12067 | Wed | 11166 30132 34952 24004 00589                                                     | FSK 200/1000 | (AB) |
| F06 | 25-3 | 1040 | 12067 | Wed | 11166 30132 34952 24004 00589                                                     | FSK 200/1000 | (PY) |
| F06 | 25-3 | 1050 | 11049 | Wed | 11166 30132 34952 24004 00589                                                     | FSK 200/1000 | (AB) |
| F06 | 25-3 | 1050 | 11049 | Wed | 11166 30132 34952 24004 00589                                                     | FSK 200/1000 | (PY) |
| F06 | 25-3 | 1100 | 17516 | Wed | 11166 10064 32147 24002 00749                                                     | FSK 200/1000 | (PY) |
| F06 | 25-3 | 1200 | 15731 | Wed | 11166 10064 32147 24002 00749                                                     | FSK 200/1000 | (PY) |
| F06 | 25-3 | 1300 | 18054 | Wed | 11166 10053 58392 25002 00779                                                     | FSK 200/1000 | (PY) |
| F06 | 25-3 | 1300 | 20993 | Wed | 11166 10053 58392 25002 00779                                                     | FSK 200/1000 | (PY) |
| F06 | 25-3 | 1300 | 26215 | Wed | 11166 10053 58392 25002 00779                                                     | FSK 200/1000 | (PY) |
| F06 | 25-3 | 1400 | 19948 | Wed | 11166 10064 32147 24002 00749                                                     | FSK 200/1000 | (AB) |
| F06 | 25-3 | 1400 | 19948 | Wed | 11166 10064 32147 24002 00749                                                     | FSK 200/1000 | (PY) |
| F06 | 25-3 | 1400 | 20929 | Wed | 11166 10020 85216 24002 00469                                                     | FSK 200/1000 | (PY) |
| F06 | 25-3 | 1410 | 17516 | Wed | 11166 10064 32147 24002 00749                                                     | FSK 200/1000 | (AB) |
| F06 | 25-3 | 1410 | 22935 | Wed | Active, waterfall only, unconfirmed                                               | FSK 200/1000 | (FD) |
| F06 | 25-3 | 1410 | 20741 | Wed | 11100 00119 82645 25002 02349                                                     | FSK 200/1000 | (PY) |
| F06 | 25-3 | 1420 | 15731 | Wed | 11166 10064 32147 24002 00749                                                     | FSK 200/1000 | (AB) |
| F06 | 25-3 | 1500 | 17428 | Wed | 11166 00052 96412 24022 01119                                                     | FSK 200/1000 | (AB) |
| F06 | 25-3 | 1500 | 19948 | Wed | 11166 10064 32147 24002 00749                                                     | FSK 200/1000 | (AB) |
| F06 | 25-3 | 1500 | 17428 | Wed | 11166 00052 96412 24022 01119                                                     | FSK 200/1000 | (PY) |
| F06 | 25-3 | 1500 | 20985 | Wed | 11166 10020 58216 25003 00899                                                     | FSK 200/1000 | (PY) |
| F06 | 25-3 | 1510 | 15646 | Wed | 11166 00052 96412 24022 01119                                                     | FSK 200/1000 | (AB) |
| F06 | 25-3 | 1510 | 17516 | Wed | 11166 10064 32147 24002 00749                                                     | FSK 200/1000 | (AB) |
| F06 | 25-3 | 1510 | 15646 | Wed | 11166 00052 96412 24022 01119                                                     | FSK 200/1000 | (PY) |
| F06 | 25-3 | 1510 | 22933 | Wed | 11166 10020 58216 25003 00899                                                     | FSK 200/1000 | (PY) |
| F06 | 25-3 | 1520 | 12153 | Wed | 11166 00052 96412 24022 01119                                                     | FSK 200/1000 | (AB) |
| F06 | 25-3 | 1520 | 15731 | Wed | 11166 10064 32147 24002 00749                                                     | FSK 200/1000 | (AB) |
| F06 | 25-3 | 1520 | 15739 | Wed | 11166 90017 95317 24054 00029 56687 00000                                         | FSK 200/1000 | (AB) |
| F06 | 25-3 | 1520 | 12153 | Wed | 11166 00052 96412 24022 01119                                                     | FSK 200/1000 | (PY) |
| F06 | 25-3 | 1520 | 15739 | Wed | 11166 90017 95317 24054 00029 56687 00000                                         | FSK 200/1000 | (PY) |
| F06 | 25-3 | 1520 | 24111 | Wed | 11166 10020 58216 25003 00899                                                     | FSK 200/1000 | (PY) |
| F06 | 25-3 | 1523 | 17454 | Wed | Transmitter for 1550z F06 20218 coming online accidentally transmitting F06 10064 | FSK 200/1000 | (PY) |
| F06 | 25-3 | 1530 | 13429 | Wed | 11166 90017 95317 24054 00029 56687 00000                                         | FSK 200/1000 | (AB) |
| F06 | 25-3 | 1530 | 13429 | Wed | 11166 90017 95317 24054 00029 56687 00000                                         | FSK 200/1000 | (PY) |
| F06 | 25-3 | 1540 | 11068 | Wed | 11166 90017 95317 24054 00029 56687 00000                                         | FSK 200/1000 | (AB) |
| F06 | 25-3 | 1540 | 11068 | Wed | 11166 90017 95317 24054 00029 56687 00000                                         | FSK 200/1000 | (PY) |
| F06 | 25-3 | 1550 | 17454 | Wed | 11166 20218 60183 25010 00989                                                     | FSK 200/1000 | (PY) |
| F06 | 25-3 | 1600 | 12211 | Wed | 11166 90215 25473 24001 00449                                                     | FSK 200/1000 | (AB) |
| F06 | 25-3 | 1600 | 12211 | Wed | 11166 90215 25473 24001 00449                                                     | FSK 200/1000 | (PY) |
| F06 | 25-3 | 1600 | 14357 | Wed | 11166 20218 60183 25010 00989                                                     | FSK 200/1000 | (PY) |
| F06 | 25-3 | 1610 | 9236  | Wed | 11166 90215 25473 24001 00449                                                     | FSK 200/1000 | (AB) |
| F06 | 25-3 | 1610 | 9236  | Wed | 11166 90215 25473 24001 00449                                                     | FSK 200/1000 | (PY) |
| F06 | 25-3 | 1610 | 11556 | Wed | 11166 20218 60183 25010 00989                                                     | FSK 200/1000 | (PY) |

|      |      |      |       |     |                                                                 |              |            |
|------|------|------|-------|-----|-----------------------------------------------------------------|--------------|------------|
| F06  | 25-3 | 1620 | 7525  | Wed | 11166 90215 25473 24001 00449                                   | FSK 200/1000 | (AB)       |
| F06  | 25-3 | 1620 | 7525  | Wed | 11166 90215 25473 24001 00449                                   | FSK 200/1000 | (PY)       |
| F06  | 26-3 | 0700 | 10671 | Thu | 11166 70202 14285 25098 01419 and 11166 70202 52164 25099 02399 | FSK 200/1000 | (AB)       |
| F06  | 26-3 | 0710 | 8093  | Thu | 11166 70202 14285 25098 01419 and 11166 70202 52164 25099 02399 | FSK 200/1000 | (AB)       |
| F06  | 26-3 | 0720 | 6879  | Thu | 11166 70202 14285 25098 01419 and 11166 70202 52164 25099 02399 | FSK 200/1000 | (AB)       |
| F06  | 26-3 | 1200 | 11428 | Thu | 11166 70202 14285 25098 01419 and 11166 70202 52164 25099 02399 | FSK 200/1000 | (AB)       |
| F06  | 26-3 | 1210 | 8026  | Thu | 11166 70202 14285 25098 01419 and 11166 70202 52164 25099 02399 | FSK 200/1000 | (AB)       |
| F06  | 26-3 | 1220 | 6884  | Thu | 11166 70202 14285 25098 01419 and 11166 70202 52164 25099 02399 | FSK 200/1000 | (AB)       |
| F06  | 26-3 | 1330 | 20219 | Thu | 11166 80214 73592 26086 00049 00000 00000 00000 00000           | FSK 200/1000 | (AB)       |
| F06  | 26-3 | 1340 | 19353 | Thu | 11166 80214 73592 26086 00049 00000 00000 00000 00000           | FSK 200/1000 | (AB)       |
| F06  | 26-3 | 1350 | 14375 | Thu | 11166 80214 73592 26086 00049 00000 00000 00000 00000           | FSK 200/1000 | (AB)       |
| F06  | 27-3 | 0500 | 10734 | Fri | 11166 60070 98756 23078 01519                                   | FSK 200/1000 | (AB)       |
| F06  | 27-3 | 0510 | 12165 | Fri | 11166 60070 98756 23078 01519                                   | FSK 200/1000 | (AB)       |
| F06  | 27-3 | 0520 | 13529 | Fri | 11166 60070 98756 23078 01519                                   | FSK 200/1000 | (AB)       |
| F06  | 27-3 | 0700 | 10671 | Fri | 11166 70202 19485 27046 00049 00000 00000 00000 00000           | FSK 200/1000 | (AB/Hiram) |
| F06  | 27-3 | 0710 | 8093  | Fri | 11166 70202 19485 27046 00049 00000 00000 00000 00000           | FSK 200/1000 | (AB/Hiram) |
| F06  | 27-3 | 0720 | 6879  | Fri | 11166 70202 19485 27046 00049 00000 00000 00000 00000           | FSK 200/1000 | (AB)       |
| F06  | 28-3 | 1700 | 11567 | Sat | 11100 00000 34685 27042 02139                                   | FSK 200/1000 | (AB)       |
| F06  | 28-3 | 1710 | 9425  | Sat | 11100 00000 34685 27042 02139                                   | FSK 200/1000 | (AB)       |
| F06  | 28-3 | 1720 | 5913  | Sat | 11100 00000 34685 27042 02139                                   | FSK 200/1000 | (AB)       |
| F06  | 29-3 | 0830 | 13547 | Sun | 11100 00000 34685 27042 02139                                   | FSK 200/1000 | (AB)       |
| F06  | 29-3 | 0840 | 11514 | Sun | 11100 00000 34685 27042 02139                                   | FSK 200/1000 | (AB)       |
| F06  | 29-3 | 0850 | 9426  | Sun | 11100 00000 34685 27042 02139                                   | FSK 200/1000 | (TM)       |
| F06  | 29-3 | 1530 | 20156 | Sun | 11166 10053 13579 29001 00049 00000 00000 00000 00000           | FSK 200/1000 | (AB)       |
| F06  | 29-3 | 1535 | 17531 | Sun | 11166 10053 13579 29001 00049 00000 00000 00000 00000           | FSK 200/1000 | (AB)       |
| F06  | 29-3 | 1540 | 13476 | Sun | 11166 10053 13579 29001 00049 00000 00000 00000 00000           | FSK 200/1000 | (AB)       |
| F06  | 30-3 | 0800 | 9074  | Mon | 11100 00000 94876 27037 01939                                   | FSK 200/1000 | (AB)       |
| F06  | 30-3 | 0810 | 7648  | Mon | 11100 00000 94876 27037 01939                                   | FSK 200/1000 | (AB)       |
| F06  | 30-3 | 0820 | 5911  | Mon | 11100 00000 94876 27037 01939                                   | FSK 200/1000 | (AB)       |
| F06  | 31-3 | 0030 | 10145 | Tue | 11166 60070 98756 23078 01519                                   | FSK 200/1000 | (AB)       |
| F06  | 31-3 | 0040 | 9055  | Tue | 11166 60070 98756 23078 01519                                   | FSK 200/1000 | (TM)       |
| F06  | 31-3 | 0050 | 7581  | Tue | 11166 60070 98756 23078 01519                                   | FSK 200/1000 | (TM)       |
| F06  | 31-3 | 0700 | 10671 | Tue | 11166 70202 39615 30002 01699 and 11166 70202 96415 30003 02179 | FSK 200/1000 | (AB)       |
| F06  | 31-3 | 0710 | 8093  | Tue | 11166 70202 39615 30002 01699 and 11166 70202 96415 30003 02179 | FSK 200/1000 | (AB)       |
| F06  | 31-3 | 0720 | 6879  | Tue | 11166 70202 39615 30002 01699 and 11166 70202 96415 30003 02179 | FSK 200/1000 | (AB)       |
| F06  | 31-3 | 0800 | 9074  | Tue | 11100 00000 94876 27037 01939                                   | FSK 200/1000 | (AB)       |
| F06  | 31-3 | 0810 | 7648  | Tue | 11100 00000 94876 27037 01939                                   | FSK 200/1000 | (AB)       |
| F06  | 31-3 | 0820 | 5911  | Tue | 11100 00000 94876 27037 01939                                   | FSK 200/1000 | (AB)       |
| F06  | 31-3 | 1200 | 11428 | Tue | 11166 70202 39615 30002 01699 and 11166 70202 96415 30003 02179 | FSK 200/1000 | (AB)       |
| F06  | 31-3 | 1210 | 8026  | Tue | 11166 70202 39615 30002 01699 and 11166 70202 96415 30003 02179 | FSK 200/1000 | (AB)       |
| F06  | 31-3 | 1220 | 6884  | Tue | 11166 70202 39615 30002 01699 and 11166 70202 96415 30003 02179 | FSK 200/1000 | (AB)       |
| F06  | 31-3 | 1650 | 17455 | Tue | 11166 10053 74152 31001 00049 00000 00000 00000 00000           | FSK 200/1000 | (AB)       |
| F06  | 31-3 | 1700 | 12211 | Tue | 11166 10053 74152 31001 00049 00000 00000 00000 00000           | FSK 200/1000 | (AB)       |
| F06  | 31-3 | 1710 | 10173 | Tue | 11166 10053 74152 31001 00049 00000 00000 00000 00000           | FSK 200/1000 | (AB)       |
| F06a | 1-3  | 1600 | 20757 | Sun | File 45441 (binary contents)                                    | FSK 200/1000 | (AB)       |
| F06a | 1-3  | 1615 | 17445 | Sun | File 45441 (binary contents)                                    | FSK 200/1000 | (AB)       |
| F06a | 1-3  | 1630 | 16323 | Sun | File 45441 (binary contents)                                    | FSK 200/1000 | (AB)       |

|      |      |      |       |     |                                                                       |              |          |
|------|------|------|-------|-----|-----------------------------------------------------------------------|--------------|----------|
| F06a | 2-3  | 0700 | 10671 | Mon | File 44476 (binary contents)                                          | FSK 200/1000 | (AB)     |
| F06a | 2-3  | 0715 | 8093  | Mon | File 44476 (binary contents)                                          | FSK 200/1000 | (AB)     |
| F06a | 2-3  | 0730 | 6879  | Mon | File 44476 (binary contents)                                          | FSK 200/1000 | (AB)     |
| F06a | 2-3  | 1200 | 11428 | Mon | File 44476 (binary contents)                                          | FSK 200/1000 | (AB)     |
| F06a | 2-3  | 1215 | 8026  | Mon | File 44476 (binary contents)                                          | FSK 200/1000 | (AB)     |
| F06a | 2-3  | 1230 | 6884  | Mon | File 44476 (binary contents)                                          | FSK 200/1000 | (AB)     |
| F06a | 3-3  | 1530 | 19629 | Tue | Active                                                                | FSK 200/1000 | (PY)     |
| F06a | 3-3  | 1540 | 15828 | Tue | File _K180038.001 (1556 bytes). Header: 11100 80038 15792 03001 02519 | FSK 200/1000 | (PY)     |
| F06a | 3-3  | 1550 | 12176 | Tue | File _K180038.001 (1556 bytes). Header: 11100 80038 15792 03001 02519 | FSK 200/1000 | (PY)     |
| F06a | 4-3  | 0600 | 14379 | Wed | File 14484 (binary contents)                                          | FSK 200/1000 | (AB-FIN) |
| F06a | 4-3  | 0615 | 15805 | Wed | File 14484 (binary contents)                                          | FSK 200/1000 | (AB-FIN) |
| F06a | 4-3  | 0630 | 18041 | Wed | File 14484 (binary contents)                                          | FSK 200/1000 | (AB-I)   |
| F06a | 4-3  | 0700 | 10671 | Wed | File 44479 (binary contents)                                          | FSK 200/1000 | (AB)     |
| F06a | 4-3  | 0715 | 8093  | Wed | File 44479 (binary contents)                                          | FSK 200/1000 | (AB)     |
| F06a | 4-3  | 0730 | 6879  | Wed | File 44479 (binary contents)                                          | FSK 200/1000 | (AB)     |
| F06a | 4-3  | 1200 | 11428 | Wed | File 44479 (binary contents)                                          | FSK 200/1000 | (AB)     |
| F06a | 4-3  | 1215 | 8026  | Wed | File 44479 (binary contents)                                          | FSK 200/1000 | (AB)     |
| F06a | 4-3  | 1230 | 6884  | Wed | File 44479 (binary contents)                                          | FSK 200/1000 | (AB)     |
| F06a | 5-3  | 0600 | 14379 | Thu | File 14484 (binary contents)                                          | FSK 200/1000 | (AB)     |
| F06a | 5-3  | 0615 | 15805 | Thu | File 14484 (binary contents)                                          | FSK 200/1000 | (AB)     |
| F06a | 5-3  | 0630 | 18041 | Thu | File 14484 (binary contents)                                          | FSK 200/1000 | (AB)     |
| F06a | 7-3  | 0800 | 16350 | Sat | 98 blocks, 1 message                                                  | FSK 200/1000 | (AB)     |
| F06a | 7-3  | 0815 | 18445 | Sat | 98 blocks, 1 message                                                  | FSK 200/1000 | (AB)     |
| F06a | 7-3  | 0830 | 20381 | Sat | 98 blocks, 1 message                                                  | FSK 200/1000 | (AB)     |
| F06a | 7-3  | 1600 | 24861 | Sat | Too weak to decode                                                    | FSK 200/100  | (AB)     |
| F06a | 7-3  | 1615 | 22859 | Sat | Too weak to decode                                                    | FSK 200/100  | (AB)     |
| F06a | 7-3  | 1630 | 20728 | Sat | Too weak to decode                                                    | FSK 200/100  | (AB)     |
| F06a | 9-3  | 0700 | 10671 | Mon | File 44482 (binary contents)                                          | FSK 200/1000 | (AB)     |
| F06a | 9-3  | 0715 | 8093  | Mon | File 44482 (binary contents)                                          | FSK 200/1000 | (AB)     |
| F06a | 9-3  | 0730 | 6879  | Mon | File 44482 (binary contents)                                          | FSK 200/1000 | (AB)     |
| F06a | 9-3  | 1200 | 11428 | Mon | File 44482 (binary contents)                                          | FSK 200/1000 | (AB)     |
| F06a | 9-3  | 1215 | 8026  | Mon | File 44482 (binary contents)                                          | FSK 200/1000 | (AB)     |
| F06a | 9-3  | 1230 | 6884  | Mon | File 44482 (binary contents)                                          | FSK 200/1000 | (AB)     |
| F06a | 11-3 | 0600 | 14379 | Wed | File 43485 (binary contents)                                          | FSK 200/1000 | (AB)     |
| F06a | 11-3 | 0615 | 15805 | Wed | File 43485 (binary contents)                                          | FSK 200/1000 | (AB)     |
| F06a | 11-3 | 0630 | 18041 | Wed | File 43485 (binary contents)                                          | FSK 200/1000 | (AB)     |
| F06a | 11-3 | 0700 | 10671 | Wed | File 44485 (binary contents)                                          | FSK 200/1000 | (AB)     |
| F06a | 11-3 | 0715 | 8093  | Wed | File 44485 (binary contents)                                          | FSK 200/1000 | (AB)     |
| F06a | 11-3 | 0730 | 6879  | Wed | File 44485 (binary contents)                                          | FSK 200/1000 | (AB)     |
| F06a | 11-3 | 1200 | 11428 | Wed | File 44485 (binary contents)                                          | FSK 200/1000 | (AB)     |
| F06a | 11-3 | 1215 | 8026  | Wed | File 44485 (binary contents)                                          | FSK 200/1000 | (AB)     |
| F06a | 11-3 | 1230 | 6884  | Wed | File 44485 (binary contents)                                          | FSK 200/1000 | (AB)     |
| F06a | 12-3 | 0600 | 14379 | Thu | File 43485 (binary contents)                                          | FSK 200/1000 | (AB)     |
| F06a | 12-3 | 0615 | 15805 | Thu | File 43485 (binary contents)                                          | FSK 200/1000 | (AB)     |
| F06a | 12-3 | 0630 | 18041 | Thu | File 43485 (binary contents)                                          | FSK 200/1000 | (AB)     |
| F06a | 15-3 | 1615 | 19163 | Sun | File 5443 (binary contents)                                           | FSK 200/1000 | (AB-IRL) |
| F06a | 15-3 | 1630 | 17469 | Sun | File 5443 (binary contents)                                           | FSK 200/1000 | (AB-IRL) |

|      |      |      |       |     |                                                                                                                                             |              |      |
|------|------|------|-------|-----|---------------------------------------------------------------------------------------------------------------------------------------------|--------------|------|
| F06a | 16-3 | 0700 | 10671 | Mon | File 44488 (binary contents)                                                                                                                | FSK 200/1000 | (AB) |
| F06a | 16-3 | 0715 | 8093  | Mon | File 44488 (binary contents)                                                                                                                | FSK 200/1000 | (AB) |
| F06a | 16-3 | 0730 | 6879  | Mon | File 44488 (binary contents)                                                                                                                | FSK 200/1000 | (AB) |
| F06a | 16-3 | 1200 | 11428 | Mon | File 44488 (binary contents)                                                                                                                | FSK 200/1000 | (AB) |
| F06a | 16-3 | 1215 | 8026  | Mon | File 44488 (binary contents)                                                                                                                | FSK 200/1000 | (AB) |
| F06a | 16-3 | 1230 | 6884  | Mon | File 44488 (binary contents)                                                                                                                | FSK 200/1000 | (AB) |
| F06a | 18-3 | 0600 | 14379 | Wed | File 44586 (binary contents)                                                                                                                | FSK 200/1000 | (AB) |
| F06a | 18-3 | 0615 | 15805 | Wed | File 44586 (binary contents)                                                                                                                | FSK 200/1000 | (AB) |
| F06a | 18-3 | 0630 | 18041 | Wed | File 44586 (binary contents)                                                                                                                | FSK 200/1000 | (AB) |
| F06a | 18-3 | 0700 | 10671 | Wed | File 44491 (binary contents)                                                                                                                | FSK 200/1000 | (AB) |
| F06a | 18-3 | 0715 | 8093  | Wed | File 44491 (binary contents)                                                                                                                | FSK 200/1000 | (AB) |
| F06a | 18-3 | 0730 | 6879  | Wed | File 44491 (binary contents)                                                                                                                | FSK 200/1000 | (AB) |
| F06a | 18-3 | 1200 | 11428 | Wed | File 44491 (binary contents)                                                                                                                | FSK 200/1000 | (AB) |
| F06a | 18-3 | 1215 | 8026  | Wed | File 44491 (binary contents)                                                                                                                | FSK 200/1000 | (AB) |
| F06a | 18-3 | 1230 | 6884  | Wed | File 44491 (binary contents)                                                                                                                | FSK 200/1000 | (AB) |
| F06a | 19-3 | 0600 | 14379 | Thu | File 44586 (binary contents)                                                                                                                | FSK 200/1000 | (AB) |
| F06a | 19-3 | 0615 | 15805 | Thu | File 44586 (binary contents)                                                                                                                | FSK 200/1000 | (AB) |
| F06a | 19-3 | 0630 | 18041 | Thu | File 44586 (binary contents)                                                                                                                | FSK 200/1000 | (AB) |
| F06a | 23-3 | 0700 | 10671 | Mon | File 44494 (binary contents)                                                                                                                | FSK 200/1000 | (AB) |
| F06a | 23-3 | 0715 | 8093  | Mon | File 44494 (binary contents)                                                                                                                | FSK 200/1000 | (AB) |
| F06a | 23-3 | 0730 | 6879  | Mon | File 44494 (binary contents)                                                                                                                | FSK 200/1000 | (AB) |
| F06a | 23-3 | 1200 | 11428 | Mon | File 44494 (binary contents)                                                                                                                | FSK 200/1000 | (AB) |
| F06a | 23-3 | 1200 | 11428 | Mon | File 44401 (binary contents)                                                                                                                | FSK 200/1000 | (AB) |
| F06a | 23-3 | 1215 | 8026  | Mon | File 44494 (binary contents)                                                                                                                | FSK 200/1000 | (AB) |
| F06a | 23-3 | 1215 | 8026  | Mon | File 44401 (binary contents)                                                                                                                | FSK 200/1000 | (AB) |
| F06a | 23-3 | 1230 | 6884  | Mon | File 44401 (binary contents)                                                                                                                | FSK 200/1000 | (AB) |
| F06a | 23-3 | 1230 | 6884  | Mon | File 44494 (binary contents)                                                                                                                | FSK 200/1000 | (AB) |
| F06a | 24-3 | 1525 | 9363  | Tue | File named _KI800~1.TXT (tentative decode), too weak to decode at all                                                                       | FSK 200/1000 | (PY) |
| F06a | 24-3 | 1525 | 11068 | Tue | File named _KI800~1.TXT (tentative decode)                                                                                                  | FSK 200/1000 | (PY) |
| F06a | 25-3 | 0600 | 14379 | Wed | File 64487 (binary contents)                                                                                                                | FSK 200/1000 | (AB) |
| F06a | 25-3 | 0615 | 15805 | Wed | File 64487 (binary contents)                                                                                                                | FSK 200/1000 | (AB) |
| F06a | 25-3 | 0630 | 18041 | Wed | File 64487 (binary contents)                                                                                                                | FSK 200/1000 | (AB) |
| F06a | 25-3 | 0700 | 10671 | Wed | File 44497 (binary contents)                                                                                                                | FSK 200/1000 | (AB) |
| F06a | 25-3 | 0715 | 8093  | Wed | File 44497 (binary contents)                                                                                                                | FSK 200/1000 | (AB) |
| F06a | 25-3 | 0730 | 6879  | Wed | File 44497 (binary contents)                                                                                                                | FSK 200/1000 | (AB) |
| F06a | 25-3 | 1200 | 11428 | Wed | File 44497 (binary contents)                                                                                                                | FSK 200/1000 | (AB) |
| F06a | 25-3 | 1215 | 8026  | Wed | File 44497 (binary contents)                                                                                                                | FSK 200/1000 | (AB) |
| F06a | 25-3 | 1230 | 6884  | Wed | File 44497 (binary contents)                                                                                                                | FSK 200/1000 | (AB) |
| F06a | 25-3 | 1245 | 20237 | Wed | File _KI80094.001 (1260 bytes). Header: 11100 80094 94235 25001 02019                                                                       | FSK 200/1000 | (PY) |
| F06a | 25-3 | 1255 | 17463 | Wed | File _KI80094.001 (1260 bytes). Header: 11100 80094 94235 25001 02019                                                                       | FSK 200/1000 | (PY) |
| F06a | 25-3 | 1305 | 13826 | Wed | File _KI80094.001 (1260 bytes). Header: 11100 80094 94235 25001 02019                                                                       | FSK 200/1000 | (PY) |
| F06a | 25-3 | 1520 | 11128 | Wed | Too weak to decode                                                                                                                          | FSK 200/1000 | (PY) |
| F06a | 25-3 | 1530 | 9467  | Wed | File named _KI801~1.TXT (1253 bytes). Header: 11100 80072 91728 24023 02____ (tentative decode), 5FG text file, too weak to properly decode | FSK 200/1000 | (PY) |
| F06a | 25-3 | 1540 | 7464  | Wed | Too weak to decode                                                                                                                          | FSK 200/1000 | (PY) |
| F06a | 26-3 | 0600 | 14379 | Thu | File 64487 (binary contents)                                                                                                                | FSK 200/1000 | (AB) |
| F06a | 26-3 | 0615 | 15805 | Thu | File 64487 (binary contents)                                                                                                                | FSK 200/1000 | (AB) |



|      |      |      |       |     |                              |                                |            |
|------|------|------|-------|-----|------------------------------|--------------------------------|------------|
| F06a | 26-3 | 0630 | 18041 | Thu | File 64487 (binary contents) | FSK 200/1000                   | (AB)       |
| F06a | 27-3 | 2000 | 7943  | Fri | File 44052 (binary contents) | FSK 200/1000                   | (AB)       |
| F06a | 27-3 | 2015 | 6853  | Fri | File 44052 (binary contents) | FSK 200/1000                   | (AB)       |
| F06a | 27-3 | 2030 | 5869  | Fri | File 44052 (binary contents) | FSK 200/1000                   | (AB)       |
| F06a | 28-3 | 0700 | 12165 | Sat | File 44052 (binary contents) | FSK 200/1000                   | (AB/Hiram) |
| F06a | 28-3 | 0715 | 11044 | Sat | File 44052 (binary contents) | FSK 200/1000                   | (AB/Hiram) |
| F06a | 28-3 | 0730 | 10277 | Sat | File 44052 (binary contents) | FSK 200/1000                   | (AB/Hiram) |
| F06a | 28-3 | 1600 | 24861 | Sat | File 44645 (binary contents) | FSK 200/1000                   | (AB-GRC)   |
| F06a | 28-3 | 1615 | 22859 | Sat | File 44645 (binary contents) | FSK 200/1000                   | (AB-GRC)   |
| F06a | 29-3 | 1615 | 19163 | Sun | File 44645 (binary contents) | FSK 200/1000                   | (AB)       |
| F06a | 29-3 | 1630 | 17469 | Sun | File 44645 (binary contents) | FSK 200/1000                   | (AB)       |
| F06a | 30-3 | 0700 | 10671 | Mon | File 44401 (binary contents) | FSK 200/1000                   | (AB)       |
| F06a | 30-3 | 0715 | 8093  | Mon | File 44401 (binary contents) | FSK 200/1000                   | (AB)       |
| F06a | 30-3 | 0730 | 6879  | Mon | File 44401 (binary contents) | FSK 200/1000                   | (AB)       |
| F06s | 28-3 | 1630 | 20728 | Sat | File 44645 (binary contents) | FSK 200/1000                   | (AB-GRC)   |
| F07  | 3-3  | 2100 | 10244 | Tue | Russian intel.               | 5xMFSK-16/10Bd/20Hz+250Bd BPSK | (AB)       |
| F07  | 3-3  | 2110 | 9379  | Tue | Russian intel.               | 5xMFSK-16/10Bd/20Hz+250Bd BPSK | (AB)       |
| F07  | 3-3  | 2120 | 8161  | Tue | Russian intel.               | 5xMFSK-16/10Bd/20Hz+250Bd BPSK | (AB)       |
| F07  | 3-3  | 2130 | 7518  | Tue | Russian intel.               | 5xMFSK-16/10Bd/20Hz+250Bd BPSK | (AB)       |
| F07  | 3-3  | 2140 | 6783  | Tue | Russian intel.               | 5xMFSK-16/10Bd/20Hz+250Bd BPSK | (AB)       |
| F07  | 3-3  | 2150 | 5864  | Tue | Russian intel.               | 5xMFSK-16/10Bd/20Hz+250Bd BPSK | (AB)       |
| F07  | 5-3  | 2100 | 10244 | Thu | Russian intel.               | 5xMFSK-16/10Bd/20Hz+250Bd BPSK | (AB)       |
| F07  | 5-3  | 2110 | 9379  | Thu | Russian intel.               | 5xMFSK-16/10Bd/20Hz+250Bd BPSK | (AB)       |
| F07  | 5-3  | 2120 | 8161  | Thu | Russian intel.               | 5xMFSK-16/10Bd/20Hz+250Bd BPSK | (AB)       |
| F07  | 5-3  | 2130 | 7518  | Thu | Russian intel.               | 5xMFSK-16/10Bd/20Hz+250Bd BPSK | (AB)       |
| F07  | 5-3  | 2140 | 6783  | Thu | Russian intel.               | 5xMFSK-16/10Bd/20Hz+250Bd BPSK | (AB)       |
| F07  | 5-3  | 2150 | 5864  | Thu | Russian intel.               | 5xMFSK-16/10Bd/20Hz+250Bd BPSK | (AB)       |
| F07  | 10-3 | 2100 | 10244 | Tue | Russian intel.               | 5xMFSK-16/10Bd/20Hz+250Bd BPSK | (AB)       |
| F07  | 10-3 | 2110 | 9379  | Tue | Russian intel.               | 5xMFSK-16/10Bd/20Hz+250Bd BPSK | (AB)       |
| F07  | 10-3 | 2120 | 8161  | Tue | Russian intel.               | 5xMFSK-16/10Bd/20Hz+250Bd BPSK | (AB)       |
| F07  | 10-3 | 2130 | 7518  | Tue | Russian intel.               | 5xMFSK-16/10Bd/20Hz+250Bd BPSK | (AB)       |
| F07  | 10-3 | 2140 | 6783  | Tue | Russian intel.               | 5xMFSK-16/10Bd/20Hz+250Bd BPSK | (AB)       |
| F07  | 10-3 | 2150 | 5864  | Tue | Russian intel.               | 5xMFSK-16/10Bd/20Hz+250Bd BPSK | (AB)       |
| F07  | 12-3 | 2100 | 10244 | Thu | Russian intel.               | 5xMFSK-16/10Bd/20Hz+250Bd BPSK | (AB)       |
| F07  | 12-3 | 2110 | 9379  | Thu | Russian intel.               | 5xMFSK-16/10Bd/20Hz+250Bd BPSK | (AB)       |
| F07  | 12-3 | 2120 | 8161  | Thu | Russian intel.               | 5xMFSK-16/10Bd/20Hz+250Bd BPSK | (AB)       |
| F07  | 12-3 | 2130 | 7518  | Thu | Russian intel.               | 5xMFSK-16/10Bd/20Hz+250Bd BPSK | (AB)       |
| F07  | 12-3 | 2140 | 6783  | Thu | Russian intel.               | 5xMFSK-16/10Bd/20Hz+250Bd BPSK | (AB)       |
| F07  | 12-3 | 2150 | 5864  | Thu | Russian intel.               | 5xMFSK-16/10Bd/20Hz+250Bd BPSK | (AB)       |
| F07  | 17-3 | 2100 | 10244 | Tue | Russian intel.               | 5xMFSK-16/10Bd/20Hz+250Bd BPSK | (AB)       |
| F07  | 17-3 | 2110 | 9379  | Tue | Russian intel.               | 5xMFSK-16/10Bd/20Hz+250Bd BPSK | (AB)       |
| F07  | 17-3 | 2120 | 8161  | Tue | Russian intel.               | 5xMFSK-16/10Bd/20Hz+250Bd BPSK | (AB)       |
| F07  | 17-3 | 2130 | 7518  | Tue | Russian intel.               | 5xMFSK-16/10Bd/20Hz+250Bd BPSK | (AB)       |
| F07  | 17-3 | 2140 | 6783  | Tue | Russian intel.               | 5xMFSK-16/10Bd/20Hz+250Bd BPSK | (AB)       |
| F07  | 17-3 | 2150 | 5864  | Tue | Russian intel.               | 5xMFSK-16/10Bd/20Hz+250Bd BPSK | (AB)       |
| F07  | 19-3 | 2100 | 10244 | Thu | Russian intel.               | 5xMFSK-16/10Bd/20Hz+250Bd BPSK | (AB)       |
| F07  | 19-3 | 2110 | 9379  | Thu | Russian intel.               | 5xMFSK-16/10Bd/20Hz+250Bd BPSK | (AB)       |

|     |      |      |       |     |                                                                                                                                                                                                                                                              |                                |             |
|-----|------|------|-------|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|-------------|
| F07 | 19-3 | 2120 | 8161  | Thu | Russian intel.                                                                                                                                                                                                                                               | 5xMFSK-16/10Bd/20Hz+250Bd BPSK | (AB)        |
| F07 | 19-3 | 2130 | 7518  | Thu | Russian intel.                                                                                                                                                                                                                                               | 5xMFSK-16/10Bd/20Hz+250Bd BPSK | (AB)        |
| F07 | 19-3 | 2140 | 6783  | Thu | Russian intel.                                                                                                                                                                                                                                               | 5xMFSK-16/10Bd/20Hz+250Bd BPSK | (AB)        |
| F07 | 19-3 | 2150 | 5864  | Thu | Russian intel.                                                                                                                                                                                                                                               | 5xMFSK-16/10Bd/20Hz+250Bd BPSK | (AB)        |
| F07 | 24-3 | 2100 | 10244 | Tue | Russian intel.                                                                                                                                                                                                                                               | 5xMFSK-16/10Bd/20Hz+250Bd BPSK | (AB)        |
| F07 | 24-3 | 2110 | 9379  | Tue | Russian intel.                                                                                                                                                                                                                                               | 5xMFSK-16/10Bd/20Hz+250Bd BPSK | (AB)        |
| F07 | 24-3 | 2120 | 8161  | Tue | Russian intel.                                                                                                                                                                                                                                               | 5xMFSK-16/10Bd/20Hz+250Bd BPSK | (AB)        |
| F07 | 24-3 | 2130 | 7518  | Tue | Russian intel.                                                                                                                                                                                                                                               | 5xMFSK-16/10Bd/20Hz+250Bd BPSK | (AB)        |
| F07 | 24-3 | 2140 | 6783  | Tue | Russian intel.                                                                                                                                                                                                                                               | 5xMFSK-16/10Bd/20Hz+250Bd BPSK | (AB)        |
| F07 | 24-3 | 2150 | 5864  | Tue | Russian intel.                                                                                                                                                                                                                                               | 5xMFSK-16/10Bd/20Hz+250Bd BPSK | (AB)        |
| F07 | 26-3 | 2100 | 10244 | Thu | Russian intel.                                                                                                                                                                                                                                               | 5xMFSK-16/10Bd/20Hz+250Bd BPSK | (AB)        |
| F07 | 26-3 | 2110 | 9379  | Thu | Russian intel.                                                                                                                                                                                                                                               | 5xMFSK-16/10Bd/20Hz+250Bd BPSK | (AB)        |
| F07 | 26-3 | 2120 | 8161  | Thu | Russian intel.                                                                                                                                                                                                                                               | 5xMFSK-16/10Bd/20Hz+250Bd BPSK | (AB)        |
| F07 | 26-3 | 2130 | 7518  | Thu | Russian intel.                                                                                                                                                                                                                                               | 5xMFSK-16/10Bd/20Hz+250Bd BPSK | (AB)        |
| F07 | 26-3 | 2140 | 6783  | Thu | Russian intel.                                                                                                                                                                                                                                               | 5xMFSK-16/10Bd/20Hz+250Bd BPSK | (AB)        |
| F07 | 26-3 | 2150 | 5864  | Thu | Russian intel.                                                                                                                                                                                                                                               | 5xMFSK-16/10Bd/20Hz+250Bd BPSK | (AB)        |
| F07 | 31-3 | 2100 | 10244 | Tue | Russian intel.                                                                                                                                                                                                                                               | 5xMFSK-16/10Bd/20Hz+250Bd BPSK | (AB)        |
| F07 | 31-3 | 2110 | 9379  | Tue | Russian intel.                                                                                                                                                                                                                                               | 5xMFSK-16/10Bd/20Hz+250Bd BPSK | (AB)        |
| F07 | 31-3 | 2120 | 8161  | Tue | Russian intel.                                                                                                                                                                                                                                               | 5xMFSK-16/10Bd/20Hz+250Bd BPSK | (AB)        |
| F07 | 31-3 | 2130 | 7518  | Tue | Russian intel.                                                                                                                                                                                                                                               | 5xMFSK-16/10Bd/20Hz+250Bd BPSK | (AB)        |
| F07 | 31-3 | 2140 | 6783  | Tue | Russian intel.                                                                                                                                                                                                                                               | 5xMFSK-16/10Bd/20Hz+250Bd BPSK | (AB)        |
| F07 | 31-3 | 2150 | 5864  | Tue | Russian intel.                                                                                                                                                                                                                                               | 5xMFSK-16/10Bd/20Hz+250Bd BPSK | (AB)        |
| G06 | 1-3  | 0819 | 10755 | Sun | 271 (R) 958 958 237 noises 27 27 noise 271 (R) very noisy                                                                                                                                                                                                    | USB                            | (Lac/AB)    |
| G06 | 1-3  | 0832 | 10755 | Sun | 579 (R) rest unreadable                                                                                                                                                                                                                                      | USB                            | (Lac/AB)    |
| G06 | 1-3  | 0842 | 10755 | Sun | Unreadable                                                                                                                                                                                                                                                   | USB                            | (Lac/AB)    |
| G06 | 1-3  | 0925 | 10755 | Sun | 1 480 (R) 00000, silence,                                                                                                                                                                                                                                    | USB                            | (Lac/PY/AB) |
| G06 | 1-3  | 0954 | 10757 | Sun | 111 (R)                                                                                                                                                                                                                                                      | USB                            | (Lac/PY/AB) |
| G06 | 1-3  | 0955 | 10755 | Sun | 111 111 111, tones, Windows sound                                                                                                                                                                                                                            | USB                            | (Lac/PY/AB) |
| G06 | 1-3  | 1000 | 10755 | Sun | 2 111 111 111 111 00000, faint voices, 00000 000 111 111 111 32 329 (R) 5 several distorted figures 9 329 (R) distorted figures 329 329, music fragment, Windows sounds, test tones, feedback sounds, Windows sounds, tones, feedback sounds, Windows sounds | USB                            | (Lac/PY/AB) |
| G06 | 1-3  | 1100 | 10755 | Sun | Transmitter noise, tones and clicks, 111, 329 (R) 00000 00000, Windows sounds, 329 (R), faint voices, 480 (R) 00000                                                                                                                                          | USB                            | (Lac/PY/AB) |
| G06 | 1-3  | 1130 | 10755 | Sun | 123456789 1m silence 4 439 (R) 00000 58302 96143 56322 ... 18 274 385 4 00000                                                                                                                                                                                | USB                            | (Lac/AB)    |
| G06 | 1-3  | 1141 | 10755 | Sun | Windows sounds, transmitter sounds, distorted audio, Windows sound, 334824824448482481 (very fast), windows sound, 00482                                                                                                                                     | USB                            | (Lac/AB)    |
| G06 | 1-3  | 1147 | 10755 | Sun | Unreadable operator voice also at 1149z, followed by microphone feedback                                                                                                                                                                                     | USB                            | (Lac/PY/AB) |
| G06 | 1-3  | 1149 | 10755 | Sun | Windows sounds, 4383480448 (fast) transmitter noises, 480 (R) 00000 480 (R) 00000                                                                                                                                                                            | USB                            | (Lac/PY/AB) |
| G06 | 1-3  | 1154 | 10755 | Sun | Series of beeps and tones, transmitter noise, electronic music, noises, computer sounds, Windows sound                                                                                                                                                       | USB                            | (Lac/PY/AB) |
| G06 | 1-3  | 1217 | 10755 | Sun | 480 (R) 00000, Windows sounds, 111 (R) 00000 111 111 1, Windows sounds                                                                                                                                                                                       | USB                            | (Lac/PY/AB) |
| G06 | 1-3  | 1312 | 10755 | Sun | 00000 111 111 00000 111 111 00000                                                                                                                                                                                                                            | USB                            | (Lac/PY/AB) |
| G06 | 1-3  | 1315 | 10755 | Sun | 0 329 (R) (distorted audio), Windows sound                                                                                                                                                                                                                   | USB                            | (Lac/PY/AB) |
| G06 | 1-3  | 1400 | 10755 | Sun | 00000 12345 12345 12345, transmitter noises and tones, Windows sound                                                                                                                                                                                         | USB                            | (Lac/AB)    |
| G06 | 1-3  | 1415 | 10755 | Sun | 111 111 22222 111 111 22222                                                                                                                                                                                                                                  | USB                            | (Lac/AB)    |
| G06 | 1-3  | 1421 | 10755 | Sun | 329 329 3 00000, test tones,                                                                                                                                                                                                                                 | USB                            | (Lac/PY/AB) |
| G06 | 1-3  | 1431 | 10755 | Sun | 111 111 111 480 (R) 532 6289426528928634 00000, game sounds, several music                                                                                                                                                                                   | USB                            | (Lac/PY/AB) |



|     |      |      |       |     |                                                                                                                                                                                                                                                                                                              |                       |             |
|-----|------|------|-------|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-------------|
| G06 | 1-3  | 1456 | 10755 | Sun | 329 (R) 00000                                                                                                                                                                                                                                                                                                | USB                   | (Lac/PY/AB) |
| G06 | 1-3  | 1506 | 10755 | Sun | Distorted numbers, G06: 3, many Windows sounds, 111 111 111 11 00000 000 111 111 long silence 111 111 111 111, Windows sound                                                                                                                                                                                 | USB                   | (Lac/PY/AB) |
| G06 | 1-3  | 1533 | 10755 | Sun | 111 111 111 00000, whistling, open microphone feedback                                                                                                                                                                                                                                                       | USB                   | (AB/LAC/PY) |
| G06 | 1-3  | 1539 | 10755 | Sun | 480 00000, transmitter noise, 999 90, 480 (R) 00000, 480 (R) 00000, 11111 00000                                                                                                                                                                                                                              | USB                   | (AB/LAC/PY) |
| G06 | 1-3  | 1555 | 10755 | Sun | 00000 00000, 111 (R) 00000, 480 (R) 00000                                                                                                                                                                                                                                                                    | USB                   | (AB/LAC/PY) |
| G06 | 1-3  | 1604 | 10755 | Sun | 111 (R) 00000                                                                                                                                                                                                                                                                                                | USB                   | (Lac/PY/AB) |
| G06 | 1-3  | 1614 | 10755 | Sun | 329 (R) 533 20 20 3 79 379 36 4 379 379 79 4 379 4 4 379 379 369 4 36 379 000 000 00                                                                                                                                                                                                                         | USB                   | (Lac/PY/AB) |
| G06 | 1-3  | 1618 | 10755 | Sun | 123456789 379 379 379 000 379 379 379 00000, Windows sound                                                                                                                                                                                                                                                   | USB                   | (Lac/PY/AB) |
| G06 | 1-3  | 1621 | 10755 | Sun | Windows sound, 329 329 329 329 329 (2m silence) 329 (R) 533 20 20 00 00 74 74 00 00 1 00 00000                                                                                                                                                                                                               | USB                   | (Lac/PY/AB) |
| G06 | 1-3  | 1625 | 10755 | Sun | 379 (R) 00000 00 00 00000                                                                                                                                                                                                                                                                                    | USB                   | (Lac/PY/AB) |
| G06 | 2-3  | 0925 | 10755 | Mon | 1 480 00000                                                                                                                                                                                                                                                                                                  | USB                   | (Lac)       |
| G06 | 2-3  | 1212 | 10755 | Mon | 00000, Telephone call, 482 (R) 00000                                                                                                                                                                                                                                                                         | USB                   | (PY/AB)     |
| G06 | 2-3  | 1401 | 10755 | Mon | 329 (R), 48 sec silence, 11 111 111 22222 333 44 5 6789, Windows sound                                                                                                                                                                                                                                       | USB                   | (PY/AB)     |
| G06 | 2-3  | 1409 | 10755 | Mon | Windows sounds, G06: 1 1, S06: 1, Windows sounds, S06: 111 111 111 111 (silence) 00 0 12 123 45 111 111 00 0 (1m5s silence) 67 1 67 1 0 111 111 000 0, 480 (R) 000 0 000 0 0, 278 (R) 00 00 0 0 0000 0 (long silence) Windows sounds, music fragment, silence, music fragment, 329 (R) 000 00 111 111 222 22 | USB                   | (PY/AB)     |
| G06 | 2-3  | 1430 | 10755 | Mon | 111 1 329 (R) music fragment on top of G06                                                                                                                                                                                                                                                                   | USB                   | (PY/AB)     |
| G06 | 2-3  | 1504 | 10755 | Mon | 00000                                                                                                                                                                                                                                                                                                        | USB                   | (PY/AB)     |
| G06 | 2-3  | 1539 | 10755 | Mon | 5 480 00000, voices, G06: 999 silence 90 silence 480 (R) 00000 silence 480 (R) 00000 silence 11111 00000 silence 0, Windows sound                                                                                                                                                                            | USB                   | (PY/AB)     |
| G06 | 2-3  | 1553 | 10755 | Mon | 00000 00000 111 111 111 111 111 111 111 111 111 silence 111 00000                                                                                                                                                                                                                                            | USB                   | (PY/AB)     |
| G06 | 3-3  | 0404 | 10755 | Tue | 480 (R) 000 0 0000                                                                                                                                                                                                                                                                                           | USB                   | (PY/AB)     |
| G06 | 3-3  | 0733 | 10755 | Tue | 480 480 480 00000, 480 (R) 00000, Windows sound                                                                                                                                                                                                                                                              | USB                   | (PY/AB)     |
| G06 | 3-3  | 0830 | 10755 | Tue | 480 (R) 1 00000, Windows sound                                                                                                                                                                                                                                                                               | USB                   | (PY/AB)     |
| G06 | 3-3  | 0919 | 10755 | Tue | 480 (R) 00000, windows sound, open mic sounds                                                                                                                                                                                                                                                                | USB                   | (PY/AB)     |
| G06 | 7-3  | 1108 | 10755 | Sat | 482 (R) 00000, tones, Windows sounds                                                                                                                                                                                                                                                                         | USB                   | (PY/AB)     |
| KRE | 1-3  | 0830 | 13100 | Sun | DPRK embassy Moscow wkg DPRK embassy Warsaw                                                                                                                                                                                                                                                                  | DPRK ARQ 600/600 LSB  | (AB)        |
| KRE | 2-3  | 0847 | 13120 | Mon | DPRK embassy Rome wkg DPRK embassy Moscow                                                                                                                                                                                                                                                                    | DPRK ARQ 1200/600 LSB | (AB)        |
| KRE | 5-3  | 0708 | 19130 | Thu | DPRK embassy Moscow wkg DPRK embassy Prague                                                                                                                                                                                                                                                                  | DPRK ARQ 1200/600 LSB | (AB)        |
| KRE | 6-3  | 0748 | 16252 | Fri | DPRK embasaay Moscow wkg DPRK Permanent Mission to the UN, Geneva                                                                                                                                                                                                                                            | DPRK-ARQ 600/600 LSB  | (AB)        |
| KRE | 6-3  | 0753 | 14300 | Fri | DPRK embassy Moscow wkg DPRK embassy Sofia                                                                                                                                                                                                                                                                   | DPRK-ARQ 600/600 LSB  | (AB)        |
| KRE | 6-3  | 0754 | 13800 | Fri | Unid DPRK embassy wkg DPRK embassy Moscow                                                                                                                                                                                                                                                                    | DPRK-ARQ 600/600 LSB  | (AB)        |
| KRE | 6-3  | 0800 | 16252 | Fri | DPRK embassy Moscow wkg DPRK embassy Sofia                                                                                                                                                                                                                                                                   | DPRK-ARQ 600/600 LSB  | (AB)        |
| KRE | 6-3  | 0940 | 14450 | Fri | Unid DPRK embassy wkg DPRK embassy Moscow                                                                                                                                                                                                                                                                    | DPRK-ARQ 600/600 LSB  | (AB)        |
| KRE | 6-3  | 1206 | 11045 | Fri | DPRK embassy Moscow wkg DPRK embassy Stockholm                                                                                                                                                                                                                                                               | DPRK-ARQ 600/600 LSB  | (AB)        |
| KRE | 6-3  | 1228 | 18650 | Fri | DPRK embassy Rome wkg DPRK embassy Moscow                                                                                                                                                                                                                                                                    | DPRK-ARQ 1200/600 LSB | (AB)        |
| KRE | 6-3  | 1409 | 15555 | Fri | Unid DPRK embassy wkg DPRK embassy Moscow                                                                                                                                                                                                                                                                    | DPRK-ARQ 1200/600 LSB | (AB)        |
| KRE | 6-3  | 1432 | 11045 | Fri | DPRK embassy Moscow msg 533 to DPRK embassy Stockholm                                                                                                                                                                                                                                                        | DPRK-ARQ 1200/600 LSB | (AB)        |
| KRE | 12-3 | 0949 | 14350 | Thu | DPRK embassy Moscow wkg DPRK embassy Warsaw                                                                                                                                                                                                                                                                  | DPRK-ARQ 600/600 LSB  | (AB)        |
| KRE | 12-3 | 0949 | 14450 | Thu | DPRK embassy Warsaw wkg DPRK embassy Moscow                                                                                                                                                                                                                                                                  | DPRK-ARQ 600/600 LSB  | (AB)        |
| KRE | 13-3 | 0818 | 14350 | Fri | DPRK embassy Moscow wkg DPRK embassy Warsaw                                                                                                                                                                                                                                                                  | DPRK-ARQ 600/600 LSB  | (AB)        |
| KRE | 18-3 | 0720 | 14300 | Wed | DPRK embassy Moscow wkg DPRK embassy Sofia                                                                                                                                                                                                                                                                   | DPRK-ARQ 600/600 LSB  | (AB)        |
| KRE | 18-3 | 0935 | 24120 | Wed | DPRK embassy Rome wkg DPRK embassy Moscow                                                                                                                                                                                                                                                                    | DPRK-ARQ 1200/600 LSB | (AB)        |
| KRE | 20-3 | 1326 | 14300 | Fri | DPRK embassy Mosocw msg 640, 124 groups to DPRK embassy Sofia                                                                                                                                                                                                                                                | DPRK-ARQ 600/600 LSB  | (AB)        |

|     |      |      |       |     |                                                                                                                                |                      |            |
|-----|------|------|-------|-----|--------------------------------------------------------------------------------------------------------------------------------|----------------------|------------|
| KRE | 23-3 | 1226 | 11050 | Mon | Unid DPRK-ARQ embassy wkg DPRK embassy Moscow                                                                                  | DPRK-ARQ 600/600 LSB | (AB)       |
| KRE | 24-3 | 1206 | 11130 | Tue | Unid DPRK embassy wkg DPRK embassy Moscow                                                                                      | DPRK-ARQ 600/600 LSB | (AB)       |
| KRE | 24-3 | 1304 | 14150 | Tue | DPRK embassy Moscow wkg DPRK Permanent Mission to the UN, Geneva                                                               | DPRK-ARQ 600/600 LSB | (AB)       |
| KRE | 24-3 | 1335 | 14150 | Tue | Unid DPRK embassy wkg DPRK embassy Moscow                                                                                      | DPRK-ARQ 600/600 LSB | (AB)       |
| KRE | 25-3 | 0715 | 14150 | Wed | DPRK embassy Moscow wkg DPRK embassy Prague                                                                                    | DPRK-ARQ 600/600 LSB | (AB)       |
| KRE | 25-3 | 0720 | 13800 | Wed | DPRK embassy Moscow wkg DPRK Permanent Mission to the UN, Geneva                                                               | DPRK-ARQ 600/600 LSB | (AB)       |
| KRE | 27-3 | 0804 | 11090 | Fri | Unid DPRK embassy wkg DPRK embassy Moscow                                                                                      | DPRK-ARQ 600/600 LSB | (AB)       |
| KRE | 28-3 | 1449 | 11850 | Sat | Unid DPRK embassy wkg DPRK embassy Moscow                                                                                      | DPRK-ARQ 600/600 LSB | (AB)       |
| M01 | 1-3  | 0700 | 6510  | Sun | 463 908 908 30 30 = = 58768 77980 48769 ... 0978478 47765 46 = = 908 908 30 30 000                                             | CW                   | (AB)       |
| M01 | 3-3  | 1800 | 5475  | Tue | 463 566 566 30 30 = = 73643 38475 83743 ... 00677 54546 45678 = = 566 566 30 30 000                                            | CW                   | (AB)       |
| M01 | 3-3  | 2000 | 5020  | Tue | 463 456 456 30 30 = = 58833 48903 89231 ... 48392 50018 54327 = = = 456 456 30 30 000                                          | CW                   | (AB)       |
| M01 | 5-3  | 1800 | 5465  | Thu | 463 290 290 30 30 = = 20691 68040 11862 ... 64012 6426041 60 55031 5031 = = 902 902 30 30 000                                  | CW                   | (AB)       |
| M01 | 7-3  | 1500 | 6260  | Sat | 463 982 982 30 30 = = 43221 20043 78091 ... 78002 09981 90023 = = 982 982 30 30 000                                            | CW                   | (AB)       |
| M01 | 8-3  | 0700 | 6510  | Sun | 463 561 561 30 30 = = 56650 43342 45657 ... 87601 01 89023 802 8790 790 = 561 561 30 30 000 followed by a digital transmission | CW                   | (AB)       |
| M01 | 10-3 | 1800 | 5475  | Tue | 463 098 098 30 30 = = 58301 65083 50190 ... 00781 55672 05051 = = 098 098 30 30 000                                            | CW                   | (AB/Hiram) |
| M01 | 10-3 | 2000 | 5020  | Tue | 463 461 461 30 30 = = 04718 97045 48109 ... 08403 76881 97030 = = 461 461 30 30 000                                            | CW                   | (AB)       |
| M01 | 12-3 | 1800 | 5475  | Thu | 463 756 30 756 30 = = 96860 48756 16254 ... 66877 44980 35421 = = 756 30 756 30 000 followed by a digital transmission         | CW                   | (AB)       |
| M01 | 12-3 | 2000 | 5020  | Thu | 463 668 30 668 30 = = 69878 44986 22543 ... 58768 23546 50987 = = 668 30 668 30 000 followed by a digital transmission         | CW                   | (AB)       |
| M01 | 14-3 | 1500 | 6260  | Sat | 463 873 873 30 30 = = 89002 88762 43344 ... 7900 9873 74211 = = 873 873 30 30 000                                              | CW                   | (AB)       |
| M01 | 15-3 | 0700 | 6510  | Sun | 463 471 471 30 30 = = 86091 09038 28610 ... 38691 74930 05520 = = 471 471 30 30 000                                            | CW                   | (AB)       |
| M01 | 17-3 | 1800 | 5475  | Tue | 463 874 30 874 30 = = 85769 38475 02837 ... 61957 64728 85746 = = 874 30 874 30 000                                            | CW                   | (AB)       |
| M01 | 17-3 | 2000 | 5020  | Tue | 463 183 30 183 30 = = 21435 76980 02937 ... 95867 64758 27484 = = 183 30 183 30 000                                            | CW                   | (AB)       |
| M01 | 19-3 | 1800 | 5475  | Thu | 463 193 193 30 30 = = 22314 44321 76341 ... 38476 87654 00098 = = 193 193 30 30 000                                            | CW                   | (AB)       |
| M01 | 19-3 | 2000 | 5020  | Thu | 463 876 876 30 30 = = 28475 97876 34989 ... 65432 78990 76544 = = 876 876 30 30 000                                            | CW                   | (AB)       |
| M01 | 24-3 | 1800 | 5475  | Tue | 463 240 240 30 30 = = 26484 19047 16424 ... 78422 56745 80977 = = 240 240 30 30 000 Group 30 was not repeated                  | CW                   | (AB)       |
| M01 | 24-3 | 2000 | 5020  | Tue | 463 719 719 30 30 = = 26381 61847 90876 ... 29090 57976 31547 = = 719 719 30 30 000 Groups 15 and 27 were not repeated         | CW                   | (AB)       |
| M01 | 26-3 | 1800 | 5475  | Thu | 463 617 617 30 30 = = 85038 07936 07051 ... 681 56806684 668 517 6 30 30 0000 followed by two digital transmissions            | CW                   | (AB)       |
| M01 | 26-3 | 2000 | 5020  | Thu | 463 907 907 30 30 = = 50037 97025 76089 ... 0805 07937 00571 = = 907 907 30 30 000                                             | CW                   | (AB)       |
| M01 | 28-3 | 1500 | 6260  | Sat | 463 480 480 30 30 = = 80609 74820 67498 ... 98046 23870 57218 = = 480 480 30 30 000 followed by a digital broadcast            | CW                   | (AB)       |
| M01 | 31-3 | 1800 | 5475  | Tue | 463 321 321 30 30 = = = 74363 46733 56343 ... 00771 46453 77665 = = 321 321 30 30 000                                          | CW                   | (AB)       |
| M01 | 31-3 | 2000 | 5020  | Tue | 463 554 554 30 30 = = 73846 35612 47653 ... 56343 65778 90900 = = 554 554 30 30 000 followed by a digital transmission         | CW                   | (AB)       |
| M12 | 1-3  | 1900 | 12135 | Sun | 573 573 573 1 437 27 437 27 18685 99696 13895 ... 59972 91570 63029 000 000                                                    | CW                   | (AB)       |
| M12 | 1-3  | 1920 | 11452 | Sun | 573 573 573 1 437 27 437 27 18685 99696 13895 ... 59972 91570 63029 000 000                                                    | CW                   | (AB)       |
| M12 | 1-3  | 1940 | 10627 | Sun | 573 573 573 1 437 27 437 27 18685 99696 13895 ... 59972 91570 63029 000 000                                                    | CW                   | (AB)       |
| M12 | 2-3  | 1900 | 12135 | Mon | 573 573 573 1 6095 107 6095 107 61087 91241 27668 ... 23226 75991 27116 000 000                                                | CW                   | (AB)       |
| M12 | 2-3  | 1920 | 11452 | Mon | 573 573 573 1 6095 107 6095 107 61087 91241 27668 ... 23226 75991 27116 000 000                                                | CW                   | (AB)       |
| M12 | 2-3  | 1940 | 10627 | Mon | 573 573 573 1 6095 107 6095 107 61087 91241 27668 ... 23226 75991 27116 000 000                                                | CW                   | (AB)       |
| M12 | 5-3  | 1900 | 11564 | Thu | 258 258 258 1 2380 155 2380 155 15512 44444 02138 ...                                                                          | CW                   | (AB)       |

|     |      |      |       |     |                                                                                       |    |             |
|-----|------|------|-------|-----|---------------------------------------------------------------------------------------|----|-------------|
| M12 | 5-3  | 1920 | 10487 | Thu | 258 258 258 1 2380 155 2380 155 15512 44444 02138 ...                                 | CW | (AB)        |
| M12 | 5-3  | 1940 | 9319  | Thu | 258 258 258 1 2380 155 2380 155 15512 44444 02138 ...                                 | CW | (AB)        |
| M12 | 6-3  | 2220 | 10218 | Fri | 521 521 521 1 4411 62 4411 62 53388 04782 95791 ... 70986 09181 94132 000 000         | CW | (PY)        |
| M12 | 6-3  | 2240 | 9167  | Fri | 521 521 521 1 4411 62 4411 62 53388 04782 95791 ... 70986 09181 94132 000 000         | CW | (PY)        |
| M12 | 7-3  | 1900 | 11564 | Sat | 258 258 258 1 2380 155 2380 155 15512 44444 02138 ...                                 | CW | (AB)        |
| M12 | 7-3  | 1920 | 10487 | Sat | 258 258 258 1 2380 155 2380 155 15512 44444 02138 ...                                 | CW | (AB)        |
| M12 | 7-3  | 1940 | 9319  | Sat | 258 258 258 1 2380 155 2380 155 15512 44444 02138 ...                                 | CW | (AB)        |
| M12 | 7-3  | 2220 | 10218 | Sat | 521 521 521 1 4411 62 4411 62 53488 04782 95791 ... 70986 09181 94132 000 000         | CW | (AB)        |
| M12 | 8-3  | 1900 | 12135 | Sun | 573 573 573 1 6095 107 6095 107 61087 91241 27668 ... 23226 75991 27116 000 000       | CW | (AB)        |
| M12 | 8-3  | 1920 | 11452 | Sun | 573 573 573 1 6095 107 6095 107 61087 91241 27668 ... 23226 75991 27116 000 000       | CW | (AB)        |
| M12 | 8-3  | 1940 | 10627 | Sun | 573 573 573 1 6095 107 6095 107 61087 91241 27668 ... 23226 75991 27116 000 000       | CW | (AB)        |
| M12 | 9-3  | 1900 | 12135 | Mon | 573 573 573 1 3263 110 320 2363 110 54045 16860 96714 ... 68926 62532 56304 000 000   | CW | (AB/RL-HOL) |
| M12 | 9-3  | 1920 | 11452 | Mon | 573 573 573 1 3263 110 320 2363 110 54045 16860 96714 ... 68926 62532 56304 000 000   | CW | (AB)        |
| M12 | 9-3  | 1940 | 10627 | Mon | 573 573 573 1 3263 110 320 2363 110 54045 16860 96714 ... 68926 62532 56304 000 000   | CW | (AB)        |
| M12 | 12-3 | 1900 | 11564 | Thu | 258 258 258 1 2723 181 2723 181 02645 30271 44693 ... 89423 57721 70886 000 000       | CW | (AB)        |
| M12 | 12-3 | 1920 | 10487 | Thu | 258 258 258 1 2723 181 2723 181 02645 30271 44693 ... 89423 57721 70886 000 000       | CW | (AB)        |
| M12 | 12-3 | 1940 | 9319  | Thu | 258 258 258 1 2723 181 2723 181 02645 30271 44693 ... 89423 57721 70886 000 000       | CW | (AB)        |
| M12 | 13-3 | 2200 | 11569 | Fri | 521 521 521 1 7525 128 7525 128 96210 54166 25448 ... 07265 97689 50856 000 000       | CW | (RL)        |
| M12 | 13-3 | 2220 | 10218 | Fri | 521 521 521 1 7525 128 7525 128 96210 54166 25448 ... 07265 97689 50856 000 000       | CW | (RL)        |
| M12 | 13-3 | 2240 | 9167  | Fri | 521 521 521 1 7525 128 7525 128 96210 54166 25448 ... 07265 97689 50856 000 000       | CW | (RL)        |
| M12 | 14-3 | 1900 | 11564 | Sat | 258 258 258 1 2723 181 2723 181 02645 30271 44693 ... 89423 57721 70886 000 000       | CW | (AB)        |
| M12 | 14-3 | 1920 | 10487 | Sat | 258 258 258 1 2723 181 2723 181 02645 30271 44693 ... 89423 57721 70886 000 000       | CW | (AB)        |
| M12 | 14-3 | 1940 | 9319  | Sat | 258 258 258 1 2723 181 2723 181 02645 30271 44693 ... 89423 57721 70886 000 000       | CW | (AB)        |
| M12 | 15-3 | 1900 | 12135 | Sun | 573 573 573 1 ...                                                                     | CW | (AB)        |
| M12 | 15-3 | 1920 | 11452 | Sun | 573 573 573 1 ...                                                                     | CW | (AB)        |
| M12 | 15-3 | 1940 | 10627 | Sun | 573 573 573 1 ...                                                                     | CW | (AB)        |
| M12 | 16-3 | 1900 | 12135 | Mon | 573 573 573 1 7359 103 7359 103 85538 21862 56736 35560 ... 35487 59116 84409 000 000 | CW | (AB)        |
| M12 | 16-3 | 1920 | 11452 | Mon | 573 573 573 1 7359 103 7359 103 85538 21862 56736 35560 ... 35487 59116 84409 000 000 | CW | (AB)        |
| M12 | 16-3 | 1940 | 10627 | Mon | 573 573 573 1 7359 103 7359 103 85538 21862 56736 35560 ... 35487 59116 84409 000 000 | CW | (AB)        |
| M12 | 20-3 | 2200 | 11569 | Fri | 521 521 521 1 7525 128 7525 96210 54166 25448 ... 07265 97689 50856 000 000           | CW | (RL)        |
| M12 | 20-3 | 2220 | 10218 | Fri | 521 521 521 1 7525 128 7525 96210 54166 25448 ... 07265 97689 50856 000 000           | CW | (RL)        |
| M12 | 20-3 | 2240 | 9167  | Fri | 521 521 521 1 7525 128 7525 96210 54166 25448 ... 07265 97689 50856 000 000           | CW | (RL)        |
| M12 | 21-3 | 1900 | 11564 | Sat | 258 258 258 1 6347 187 6347 187 58866 05209 65001 ... 00958 86854 72373 000 000       | CW | (AB)        |
| M12 | 21-3 | 1920 | 10487 | Sat | 258 258 258 1 6347 187 6347 187 58866 05209 65001 ... 00958 86854 72373 000 000       | CW | (AB)        |
| M12 | 21-3 | 1940 | 9319  | Sat | 258 258 258 1 6347 187 6347 187 58866 05209 65001 ... 00958 86854 72373 000 000       | CW | (AB)        |
| M12 | 26-3 | 1900 | 11564 | Thu | 258 258 258 1 9010 198 9010 198 12116 53185 20371 ... 73226 36530 66941 000 000       | CW | (AB)        |
| M12 | 26-3 | 1920 | 10487 | Thu | 258 258 258 1 9010 198 9010 198 12116 53185 20371 ... 73226 36530 66941 000 000       | CW | (AB)        |
| M12 | 26-3 | 1940 | 9319  | Thu | 258 258 258 1 9010 198 9010 198 12116 53185 20371 ... 73226 36530 66941 000 000       | CW | (AB)        |
| M12 | 27-3 | 2200 | 11569 | Fri | 521 521 521 1 1909 134 1909 134 56259 66261 22154 ... 24097 70778 18121 000 000       | CW | (RL)        |
| M12 | 28-3 | 1900 | 11564 | Sat | 258 258 258 1 9010 198 9010 198 12116 53185 20371 ... 73226 36530 66941 000 000       | CW | (AB)        |
| M12 | 28-3 | 1920 | 10487 | Sat | 258 258 258 1 9010 198 9010 198 12116 53185 20371 ... 73226 36530 66941 000 000       | CW | (AB)        |
| M12 | 28-3 | 1940 | 9319  | Sat | 258 258 258 1 9010 198 9010 198 12116 53185 20371 ... 73226 36530 66941 000 000       | CW | (AB)        |
| M12 | 29-3 | 1900 | 12135 | Sun | 573 573 573 1 3977 118 3977 118 48244 72872 98330 ... 53937 98591 95076 000 000       | CW | (AB)        |
| M12 | 29-3 | 1920 | 11452 | Sun | 573 573 573 1 3977 118 3977 118 48244 72872 98330 ... 53937 98591 95076 000 000       | CW | (AB)        |
| M12 | 29-3 | 1940 | 10627 | Sun | 573 573 573 1 3977 118 3977 118 48244 72872 98330 ... 53937 98591 95076 000 000       | CW | (AB)        |
| M12 | 30-3 | 1900 | 12135 | Mon | 573 573 573 1 8276 115 8276 115 37520 32616 88927 ... 26896 77256 95101 000 000       | CW | (AB)        |
| M12 | 30-3 | 1920 | 11452 | Mon | 573 573 573 1 8276 115 8276 115 37520 32616 88927 ... 26896 77256 95101 000 000       | CW | (AB)        |

|            |      |      |       |     |                                                                                                                                   |    |        |
|------------|------|------|-------|-----|-----------------------------------------------------------------------------------------------------------------------------------|----|--------|
| <b>M12</b> | 30-3 | 1940 | 10627 | Mon | 573 573 573 1 8276 115 8276 115 37520 32616 88927 ... 26896 77256 95101 000 000                                                   | CW | (AB)   |
| <b>M14</b> | 17-3 | 1238 | 10755 | Tue | Two series of fast beeps                                                                                                          | CW | (PY)   |
| <b>M14</b> | 17-3 | 1250 | 10755 | Tue | 975 843 843 60 60 = = 48204 24483 27169 ... 44494 72064 79361 = = 843 843 60 60 00000.<br>Restarts                                | CW | (PY)   |
| <b>M14</b> | 19-3 | 1424 | 11073 | Thu | Slow beeps                                                                                                                        | CW | (PY)   |
| <b>M14</b> | 19-3 | 1438 | 11073 | Thu | Two series of fast beeps                                                                                                          | CW | (PY)   |
| <b>M14</b> | 19-3 | 1500 | 11073 | Thu | 352 184 184 60 60 = = 51725 70834 87357 ... 80649 24638 81693 = = 184 184 60 60 00000.<br>Restarts                                | CW | (PY)   |
| <b>M14</b> | 19-3 | 1704 | 9463  | Thu | Fast beeps                                                                                                                        | CW | (PY)   |
| <b>M14</b> | 19-3 | 1706 | 9463  | Thu | Fast beeps                                                                                                                        | CW | (PY)   |
| <b>M14</b> | 19-3 | 1730 | 9463  | Thu | 801 294 294 56 56 = = 35964 39951 82689 ... 13192 50471 40914 = = 294 294 56 56 00000.<br>Restarts                                | CW | (PY)   |
| <b>M14</b> | 30-3 | 0500 | 12211 | Mon | 952 807 807 60 60 = = 91075 56451 21100 ... 64746 22176 73812 = = 807 807 60 60 00000                                             | CW | (AB-J) |
| <b>M14</b> | 30-3 | 0520 | 10243 | Mon | 952 807 807 60 60 = = 91075 56451 21100 ... 64746 22176 73812 = = 807 807 60 60 00000                                             | CW | (AB-J) |
| <b>M14</b> | 31-3 | 0500 | 12211 | Tue | 952 807 807 60 60 = = 91075 56451 21100 ... 64746 22176 73812 = = 807 807 60 60 00000                                             | CW | (AB-J) |
| <b>M14</b> | 31-3 | 0520 | 10243 | Tue | Briefly a carrier at 0524z. No transmission                                                                                       | CW | (AB-J) |
| <b>M23</b> | 4-3  | 0605 | 6806  | Wed | 0000 (R) (off at 0709z)                                                                                                           | CW | (AB)   |
| <b>M23</b> | 5-3  | 0456 | 6806  | Thu | i.p. 33333 (R) non stop (off at 0759z)                                                                                            | CW | (AB)   |
| <b>M23</b> | 6-3  | 0522 | 6806  | Fri | i.p. 33333 (R) non-stop (off at 0759z)                                                                                            | CW | (AB)   |
| <b>M23</b> | 7-3  | 0435 | 6806  | Sat | i.p. 33333 (R) non-stop (off at 0759z)                                                                                            | CW | (AB)   |
| <b>M23</b> | 8-3  | 0500 | 6806  | Sun | 33333 (R) non-stop (off at 0759z)                                                                                                 | CW | (AB)   |
| <b>M23</b> | 8-3  | 1027 | 18307 | Sun | 33333 (R)                                                                                                                         | CW | (PY)   |
| <b>M23</b> | 9-3  | 0904 | 18307 | Mon | Non-stop Dash, 0 (R), silence, 3 (R), silence 7 (R), silence 0 (R), silence, Dash, silence (all re-<br>peated)                    | CW | (AB)   |
| <b>M23</b> | 9-3  | 1259 | 18307 | Mon | Non-stop Dash, 0 (R), silence, 3 (R), silence 7 (R), silence 0 (R), silence, Dash, silence (all re-<br>peated)                    | CW | (AB)   |
| <b>M23</b> | 9-3  | 1900 | 18307 | Mon | Non-stop Dash, 0 (R), silence, 3 (R), silence 7 (R), silence 0 (R), silence, Dash, silence (all re-<br>peated) Faded out at 1945z | CW | (AB)   |
| <b>M23</b> | 10-3 | 0330 | 6806  | Tue | i.p. non-stop 7 (off at 0331z)                                                                                                    | CW | (AB)   |
| <b>M23</b> | 10-3 | 0345 | 6806  | Tue | Non-stop 7 (off at 0553z)                                                                                                         | CW | (AB)   |
| <b>M23</b> | 10-3 | 0857 | 18307 | Tue | 0 (R25m), every 30 mins. Off at 1953z                                                                                             | CW | (AB)   |
| <b>M23</b> | 10-3 | 1957 | 6806  | Tue | 0 (R25m) every 30 min.                                                                                                            | CW | (AB)   |
| <b>M23</b> | 10-3 | 2228 | 18307 | Tue | 0 (R25m) every 30mins. Off 11-03, 0553z                                                                                           | CW | (AB)   |
| <b>M23</b> | 11-3 | 0557 | 6806  | Wed | 0 (R) Off 0654z                                                                                                                   | CW | (AB)   |
| <b>M23</b> | 11-3 | 0728 | 6806  | Wed | 0 (R) Off 0753z                                                                                                                   | CW | (AB)   |
| <b>M23</b> | 11-3 | 0758 | 18507 | Wed | 0 (R25m), every 30mins. Off at 1952z                                                                                              | CW | (AB)   |
| <b>M23</b> | 11-3 | 1958 | 6806  | Wed | 0 non-stop. Not audible after ca 2200z                                                                                            | CW | (AB)   |
| <b>M23</b> | 12-3 | 0458 | 6806  | Thu | 0 (R5m30s), 3 (R4m), 7 (R4m) (sent twice)                                                                                         | CW | (AB)   |
| <b>M23</b> | 12-3 | 0658 | 6806  | Thu | 0 (R5m30s), 3 (R4m), 7 (R4m) (sent twice)                                                                                         | CW | (AB)   |
| <b>M23</b> | 12-3 | 0858 | 18307 | Thu | 0 (R5m30s), 3 (R4m), 7 (R4m) (sent twice)                                                                                         | CW | (AB)   |
| <b>M23</b> | 12-3 | 1058 | 18307 | Thu | 0 (R5m30s), 3 (R4m), 7 (R4m) (sent twice)                                                                                         | CW | (AB)   |
| <b>M23</b> | 12-3 | 1258 | 18307 | Thu | 0 (R5m30s), 3 (R4m), 7 (R4m) (sent twice)                                                                                         | CW | (AB)   |
| <b>M23</b> | 12-3 | 1458 | 18307 | Thu | 0 (R5m30s), 3 (R4m), 7 (R4m) (sent twice)                                                                                         | CW | (AB)   |
| <b>M23</b> | 12-3 | 1658 | 18307 | Thu | 0 (R5m30s), 3 (R4m), 7 (R4m) (sent twice)                                                                                         | CW | (AB)   |
| <b>M23</b> | 12-3 | 1858 | 18307 | Thu | 0 (R5m30s), 3 (R4m), 7 (R4m) (sent twice)                                                                                         | CW | (AB)   |
| <b>M23</b> | 12-3 | 2058 | 6806  | Thu | 0 (R5m30s), 3 (R4m), 7 (R4m) (sent twice)                                                                                         | CW | (AB)   |
| <b>M23</b> | 13-3 | 0258 | 6806  | Fri | 3 (R25m)                                                                                                                          | CW | (AB)   |

|     |      |      |        |     |                                                                                                                     |    |        |
|-----|------|------|--------|-----|---------------------------------------------------------------------------------------------------------------------|----|--------|
| M23 | 13-3 | 1458 | 18307  | Fri | 3 (R25m)                                                                                                            | CW | (AB)   |
| M23 | 16-3 | 1408 | 6961.5 | Mon | RP DE VM QRK 5 QSA 5 K. DE RP QRK 3 QSA 2 K. DE RP NR 2 1602 26. AA BESOIN REVISION MOTO. BB SORTIE ANNULEE = AR AR | CW | (Anon) |
| M23 | 16-3 | 1425 | 6961.5 | Mon | VVVV VVVVV VVVV 01151 32628 68434 ... 40731 29561 81970 AR AR                                                       | CW | (AB)   |
| M23 | 16-3 | 1625 | 6961.5 | Mon | VVVV VVVVV VVVV 01151 32628 68434 ... 40731 29561 81970 AR AR                                                       | CW | (AB)   |
| M23 | 17-3 | 1010 | 6961.5 | Tue | VVVV VVVVV VVVV 01150 32628 68434 ... 40731 29561 81970 AR AR                                                       | CW | (AB)   |
| M23 | 17-3 | 1035 | 6961.5 | Tue | VVVV VVVVV VVVV 01150 32628 68434 ... 40731 29561 81970 AR AR                                                       | CW | (AB)   |
| M23 | 17-3 | 1057 | 6961.5 | Tue | VVVV VVVVV VVVV 01150 32628 68434 ... 40731 29561 81970 AR AR                                                       | CW | (AB)   |
| M23 | 17-3 | 1210 | 6961.5 | Tue | VVVV VVVVV VVVV 01150 32628 68434 ... 40731 29561 81970 AR AR                                                       | CW | (AB)   |
| M23 | 17-3 | 1227 | 6961.5 | Tue | VVVV VVVVV VVVV 01150 32628 68434 ... 40731 29561 81970 AR AR                                                       | CW | (AB)   |
| M23 | 17-3 | 1713 | 6961.5 | Tue | VVVV VVVVV VVVV 01150 32628 68434 ... 40731 29561 81970 AR AR                                                       | CW | (AB)   |
| M23 | 17-3 | 1756 | 6961.5 | Tue | VVVV VVVVV VVVV 01150 32628 68434 ... 40731 29561 81970 AR AR                                                       | CW | (AB)   |
| M23 | 18-3 | 0657 | 6961.5 | Wed | VVVV VVVVV VVVV 01150 32628 68434 ... 40731 29561 81970 AR AR                                                       | CW | (AB)   |
| M23 | 18-3 | 0808 | 6961.5 | Wed | VVVV VVVVV VVVV 01150 32628 68434 ... 40731 29561 81970 AR AR                                                       | CW | (AB)   |
| M23 | 18-3 | 0832 | 6961.5 | Wed | VVVV VVVVV VVVV 01150 32628 68434 ... 40731 29561 81970 AR AR                                                       | CW | (AB)   |
| M23 | 18-3 | 0910 | 6961.5 | Wed | VVVV                                                                                                                | CW | (AB)   |
| M23 | 18-3 | 0911 | 6961.5 | Wed | 55555 50505 55555 50505 55555 50505 55 off                                                                          | CW | (AB)   |
| M23 | 18-3 | 0947 | 6961.5 | Wed | 55555 50505 55555 50505 5 (faded to nil)                                                                            | CW | (AB)   |
| M23 | 18-3 | 1015 | 6961.5 | Wed | 55555 50505 (R10m42s)                                                                                               | CW | (AB)   |
| M23 | 18-3 | 1527 | 6961.5 | Wed | 55555 50505 (R1m36s)                                                                                                | CW | (AB)   |
| M23 | 18-3 | 1531 | 6961.5 | Wed | 55555 50505 (R45s)                                                                                                  | CW | (AB)   |
| M23 | 18-3 | 1533 | 6961.5 | Wed | 55555 50505 (R25s)                                                                                                  | CW | (AB)   |
| M23 | 18-3 | 1534 | 6961.5 | Wed | 50505 00000 (R6m)                                                                                                   | CW | (AB)   |
| M23 | 18-3 | 1536 | 6961.5 | Wed | 55555 50505 (R45s)                                                                                                  | CW | (AB)   |
| M23 | 18-3 | 1536 | 6961.5 | Wed | 50505 55555 (R33s)                                                                                                  | CW | (AB)   |
| M23 | 18-3 | 1537 | 6961.5 | Wed | 50505 55555 (R41s)                                                                                                  | CW | (AB)   |
| M23 | 18-3 | 1539 | 6961.5 | Wed | 50505 00000 (R59s)                                                                                                  | CW | (AB)   |
| M23 | 18-3 | 1546 | 6961.5 | Wed | 50505 00000 (R13m)                                                                                                  | CW | (AB)   |
| M23 | 18-3 | 1713 | 6961.5 | Wed | 50505 00000 (R12m)                                                                                                  | CW | (AB)   |
| M23 | 18-3 | 1728 | 6961.5 | Wed | 55005 55555 (R10m)                                                                                                  | CW | (AB)   |
| M23 | 18-3 | 1743 | 6961.5 | Wed | 55005 05050 (R11m50s)                                                                                               | CW | (AB)   |
| M23 | 18-3 | 1758 | 6961.5 | Wed | 50505 55555 (R10m)                                                                                                  | CW | (AB)   |
| M23 | 18-3 | 1818 | 6961.5 | Wed | 50505 05050 (R11m50s)                                                                                               | CW | (AB)   |
| M23 | 18-3 | 1836 | 6961.5 | Wed | 50505 00000 (R13m)                                                                                                  | CW | (AB)   |
| M23 | 19-3 | 1650 | 6961.5 | Thu | 50505 05500 (R10m)                                                                                                  | CW | (AB)   |
| M23 | 19-3 | 1730 | 6961.5 | Thu | 55005 05500 (R13m)                                                                                                  | CW | (AB)   |
| M23 | 19-3 | 1747 | 6961.5 | Thu | 00550 05500 (R13m)                                                                                                  | CW | (AB)   |
| M23 | 21-3 | 1015 | 6169.5 | Sat | 55005 05500 (R3m)                                                                                                   | CW | (AB)   |
| M23 | 21-3 | 1021 | 6169.5 | Sat | 55005 05500 (R6m)                                                                                                   | CW | (AB)   |
| M23 | 21-3 | 1700 | 6169.5 | Sat | 00005 05500 (R1h5m)                                                                                                 | CW | (AB)   |
| M23 | 21-3 | 1800 | 6169.5 | Sat | 50000 05500 (R12m)                                                                                                  | CW | (AB)   |
| M23 | 22-3 | 1700 | 6961.5 | Sun | 00005 55555 (R10m8s)                                                                                                | CW | (AB)   |
| M23 | 22-3 | 1715 | 6961.5 | Sun | 00550 55555 (R7m38s)                                                                                                | cW | (AB)   |
| M23 | 22-3 | 1730 | 6961.5 | Sun | 55005 55555 (R8m12s)                                                                                                | CW | (AB)   |
| M23 | 22-3 | 1745 | 6961.5 | Sun | 50505 55555 (R8m43s)                                                                                                | cW | (AB)   |
| M23 | 22-3 | 1800 | 6961.5 | Sun | 50000 55555 (R9m52s)                                                                                                | CW | (AB)   |
| M23 | 23-3 | 0945 | 6961.5 | Mon | 01230 32617 66110 ... 15977 82107 21277 AR AR                                                                       | CW | (AB)   |

|     |      |      |        |     |                                                                                                |             |            |
|-----|------|------|--------|-----|------------------------------------------------------------------------------------------------|-------------|------------|
| M23 | 23-3 | 1845 | 6961.5 | Mon | 55005 55555 (R5m25s)                                                                           | CW          | (AB)       |
| M23 | 23-3 | 1900 | 6961.5 | Mon | 50505 55555 (R5m)                                                                              | CW          | (AB)       |
| M23 | 24-3 | 1115 | 6961.5 | Tue | 50505 05050 (R6m)                                                                              | CW          | (AB)       |
| M23 | 24-3 | 1130 | 6961.5 | Tue | 55005 55555 (R5m30s)                                                                           | CW          | (AB)       |
| M23 | 24-3 | 1145 | 6961.5 | Tue | 00550 00000 (R7m)                                                                              | CW          | (AB)       |
| M23 | 24-3 | 1200 | 6961.5 | Tue | 00005 55555 (R6m)                                                                              | CW          | (AB)       |
| M23 | 30-3 | 1600 | 13958  | Mon | 5 (R), 7 (R), 0 (R), 3 (R), 7 (R). Off at 1723z                                                | CW          | (AB/Pille) |
| M23 | 30-3 | 1627 | 13958  | Mon | 0 (R), 3 (R), 7 (R), 0 (R), 3 (R), 7 (R). Off at 1653z                                         | CW          | (AB)       |
| M23 | 31-3 | 1257 | 10380  | Tue | 50505 55550 05550 05500 55005 (R25m)                                                           | CW          | (AB)       |
| M23 | 31-3 | 1327 | 10380  | Tue | 50505 55550 05550 05500 55005 (R25m)                                                           | CW          | (AB)       |
| M23 | 31-3 | 1557 | 13958  | Tue | 0 (R), 3 (R), 7 (R), 0 (R), 3 (R), 7 (R). Off after 25m                                        | CW          | (AB)       |
| M23 | 31-3 | 1627 | 13958  | Tue | 0 (R), 3 (R), 7 (R), 0 (R), 3 (R), 7 (R). Off after 25m                                        | CW          | (AB)       |
| M42 | 2-3  | 0830 | 12146  | Mon | Russian diplo                                                                                  | MFSK-66     | (AB)       |
| M42 | 4-3  | 0908 | 14631  | Wed | Russian diplo                                                                                  | MFSK-66     | (AB)       |
| M42 | 4-3  | 0919 | 14634  | Wed | Russian diplo                                                                                  | MFSK-66     | (AB)       |
| M42 | 5-3  | 1300 | 16156  | Thu | UAL: MFA Moscow wkg UAG: Russian embassy Havana. UAL UAL UAL followed by opchat and a message. | FSK 75/500  | (AB)       |
| M42 | 6-3  | 0924 | 14569  | Fri | Russian diplo                                                                                  | MFSK-66     | (AB)       |
| M42 | 6-3  | 0931 | 17364  | Fri | Russian diplo                                                                                  | MFSK-66     | (AB)       |
| M42 | 6-3  | 1349 | 13393  | Fri | Russian diplo                                                                                  | MFSK-66     | (AB)       |
| M42 | 12-3 | 1300 | 16156  | Thu | UAL: MFA Moscow wkg UAG: Russian embassy Havana. UAL UAL UAL followed by opchat and a message. | FSK 75/500  | (AB)       |
| M42 | 12-3 | 1300 | 18726  | Thu | UAG: Russian embassy Havana wkg UAL: MFA Moscow. Opchat and a message.                         | FSK 75/500  | (AB)       |
| M42 | 13-3 | 1012 | 13471  | Fri | Russian diplo                                                                                  | MFSK-66     | (AB)       |
| M42 | 16-3 | 0755 | 12122  | Mon | Russian intel.                                                                                 | MFSK-66     | (AB/RO)    |
| M42 | 16-3 | 0824 | 13520  | Mon | Russian intel.                                                                                 | MFSK-66     | (AB/T101)  |
| M42 | 17-3 | 0919 | 14358  | Tue | Russian diplo.                                                                                 | MFSK-66     | (AB)       |
| M42 | 17-3 | 0933 | 18460  | Tue | Russian diplo.                                                                                 | MFSK-66     | (AB)       |
| M42 | 18-3 | 0712 | 14454  | Wed | Russian diplo. Selcal                                                                          | Serdolik v2 | (AB/RO)    |
| M42 | 18-3 | 0716 | 14454  | Wed | Russian diplo. Selcal                                                                          | Serdolik v2 | (AB/RO)    |
| M42 | 18-3 | 0719 | 14454  | Wed | Russian diplo. Selcal                                                                          | Serdolik v2 | (AB/RO)    |
| M42 | 18-3 | 0723 | 14454  | Wed | Russian diplo. Selcal                                                                          | Serdolik v2 | (AB/RO)    |
| M42 | 18-3 | 0726 | 14454  | Wed | Russian diplo. Selcal                                                                          | Serdolik v2 | (AB/RO)    |
| M42 | 18-3 | 0729 | 14452  | Wed | Russian diplo                                                                                  | Serdolik v2 | (AB/RO)    |
| M42 | 18-3 | 0740 | 14452  | Wed | Russian diplo                                                                                  | Serdolik v2 | (AB/RO)    |
| M42 | 19-3 | 1300 | 16156  | Thu | UAL: MFA Moscow wkg UAG: Russian embassy Havana. UAL UAL UAL followed by opchat and a message. | FSK 75/500  | (AB)       |
| M42 | 19-3 | 1300 | 18726  | Thu | UAG: Russian embassy Havana wkg UAL: MFA Moscow. UAG UAG UAG followed by opchat and a message. | FSK 75/500  | (AB)       |
| M42 | 20-3 | 1013 | 14416  | Fri | Russian diplo.                                                                                 | Serdolik v2 | (AB)       |
| M42 | 24-3 | 1156 | 14521  | Tue | Russian diplo                                                                                  | OFDM-45/112 | (AB)       |
| M42 | 24-3 | 1651 | 12223  | Tue | Russian diplo                                                                                  | OFDM-45/112 | (AB)       |
| M42 | 24-3 | 1652 | 13425  | Tue | Russian diplo                                                                                  | OFDM-45/112 | (AB)       |
| M42 | 24-3 | 1742 | 14434  | Tue | Russian diplo                                                                                  | OFDM-45/112 | (AB)       |
| M42 | 26-3 | 0745 | 12125  | Thu | Russian diplo                                                                                  | MFSK-66     | (AB)       |
| M42 | 26-3 | 0753 | 13512  | Thu | Russian diplo                                                                                  | Serdolik v2 | (AB)       |
| M42 | 26-3 | 0808 | 14916  | Thu | Russian diplo                                                                                  | OFDM-45/112 | (AB)       |



|             |      |      |       |     |                                                                                                |             |          |
|-------------|------|------|-------|-----|------------------------------------------------------------------------------------------------|-------------|----------|
| <b>M42</b>  | 26-3 | 1300 | 16156 | Thu | UAL: MFA Moscow wkg UAG: Russian embassy Havana. UAL UAL UAL followed by opchat and a message. | FSK 75/500  | (AB)     |
| <b>M42</b>  | 26-3 | 1300 | 18726 | Thu | UAG: Russian embassy Havana wkg UAL: MFA Moscow. UAG UAG UAG followed by opchat and a message. | FSK 75/500  | (AB-BER) |
| <b>M42</b>  | 27-3 | 0920 | 10431 | Fri | Russian diplo                                                                                  | MFSK-66     | (AB)     |
| <b>M42</b>  | 28-3 | 0733 | 17538 | Sat | Russian diplo                                                                                  | Serdolik v2 | (AB)     |
| <b>M42b</b> | 3-3  | 0712 | 16180 | Tue | Link id 121744 followed by reversals                                                           | FSK 50/500  | (AB)     |
| <b>M89</b>  | 1-3  | 1214 | 4508  | Sun | i.p. GC6U DE XYG2                                                                              | CW          | (JPL)    |
| <b>M89</b>  | 1-3  | 1228 | 4522  | Sun | V TG1Y (x3) DE X9FW (x2)                                                                       | CW          | (JPL)    |
| <b>M89</b>  | 1-3  | 1229 | 4676  | Sun | i.p.                                                                                           | CW          | (JPL)    |
| <b>M89</b>  | 1-3  | 1236 | 6563  | Sun | i.p. NR 145 CK 51 18 0301 2145 RMKS 1823 TO 4430 =                                             | CW          | (JPL)    |
| <b>M89</b>  | 1-3  | 1248 | 6454  | Sun | i.p. NIL SK GB                                                                                 | CW          | (JPL)    |
| <b>M89</b>  | 1-3  | 2025 | 3611  | Sun | V TG1Y (x3) DE X9FW (x2)                                                                       | CW          | (JPL)    |
| <b>M89</b>  | 2-3  | 1137 | 6842  | Mon | i.p.                                                                                           | CW          | (JPL)    |
| <b>M89</b>  | 2-3  | 1141 | 3611  | Mon | V TG1Y (x3) DE X9FW (x2)                                                                       | CW          | (JPL)    |
| <b>M89</b>  | 2-3  | 1141 | 4522  | Mon | V TG1Y (x3) DE X9FW (x2)                                                                       | CW          | (JPL)    |
| <b>M89</b>  | 2-3  | 1143 | 7716  | Mon | GC6U (x3) DE XYG2 (x2)                                                                         | CW          | (JPL)    |
| <b>M89</b>  | 2-3  | 1146 | 4451  | Mon | i.p.                                                                                           | CW          | (JPL)    |
| <b>M89</b>  | 2-3  | 1149 | 4474  | Mon | i.p. NR 0003 CK 81 79 0302 1913 RMKS 3266 TO 0255 =                                            | CW          | (JPL)    |
| <b>M89</b>  | 2-3  | 1157 | 4422  | Mon | i.p.                                                                                           | CW          | (JPL)    |
| <b>M89</b>  | 2-3  | 1204 | 4508  | Mon | GC6U (x3) DE XYG2 (x2)                                                                         | CW          | (JPL)    |
| <b>M89</b>  | 3-3  | 0140 | 8888  | Tue | i.p.                                                                                           | CW          | (JPL)    |
| <b>M89</b>  | 3-3  | 0142 | 9058  | Tue | i.p.                                                                                           | CW          | (JPL)    |
| <b>M89</b>  | 3-3  | 0145 | 9251  | Tue | i.p. TG1Y DE X9FW (New freq for this callsign)                                                 | CW          | (JPL)    |
| <b>M89</b>  | 3-3  | 0150 | 13362 | Tue | TG1Y (x3) DE X9FW (x2)                                                                         | CW          | (JPL)    |
| <b>M89</b>  | 3-3  | 0154 | 9972  | Tue | i.p. NR 001/CCK 152 24 0103 0940 RMKS 5678 TO 1234 =                                           | CW          | (JPL)    |
| <b>M89</b>  | 3-3  | 0217 | 7786  | Tue | i.p.                                                                                           | CW          | (JPL)    |
| <b>M89</b>  | 3-3  | 0221 | 7589  | Tue | i.p. NR 5036 CK 51 91 0303 0920 RMKS 2319 TO 2318 =                                            | CW          | (JPL)    |
| <b>M89</b>  | 3-3  | 1051 | 4522  | Tue | V TG1Y (x3) DE X9FW (x2)                                                                       | CW          | (JPL)    |
| <b>M89</b>  | 3-3  | 1054 | 7716  | Tue | GC6U (x3) DE XYG2 (x2)                                                                         | CW          | (JPL)    |
| <b>M89</b>  | 3-3  | 1115 | 8046  | Tue | i.p.                                                                                           | CW          | (JPL)    |
| <b>M89</b>  | 3-3  | 1120 | 4860  | Tue | V Q2M (x3) DE NYZ (x2) (R5) QSA ? K                                                            | CW          | (JPL)    |
| <b>M89</b>  | 3-3  | 1120 | 6840  | Tue | V Q2M (x3) DE NYZ (x2) (R5) QSA ? K                                                            | CW          | (JPL)    |
| <b>M89</b>  | 3-3  | 1125 | 4508  | Tue | GC6U (x3) DE XYG2 (x2)                                                                         | CW          | (JPL)    |
| <b>M89</b>  | 3-3  | 1128 | 5013  | Tue | i.p.                                                                                           | CW          | (JPL)    |
| <b>M89</b>  | 3-3  | 1156 | 8070  | Tue | i.p.                                                                                           | CW          | (JPL)    |
| <b>M89</b>  | 3-3  | 1409 | 6666  | Tue | i.p.                                                                                           | CW          | (JPL)    |
| <b>M89</b>  | 3-3  | 1700 | 5837  | Tue | i.p. AR SK SK                                                                                  | CW          | (JPL)    |
| <b>M89</b>  | 4-3  | 1820 | 4860  | Wed | V Q2M (x3) DE NYZ (x2) (R5) QSA ? K                                                            | CW          | (JPL)    |
| <b>M89</b>  | 4-3  | 1820 | 6840  | Wed | V Q2M (x3) DE NYZ (x2) (R5) QSA ? K                                                            | CW          | (JPL)    |
| <b>M89</b>  | 4-3  | 1825 | 7716  | Wed | GC6U (x3) DE XYG2 (x2)                                                                         | CW          | (JPL)    |
| <b>M89</b>  | 5-3  | 1120 | 4860  | Thu | V Q2M (x3) DE NYZ (x2) (R5) QSA ? K                                                            | CW          | (JPL)    |
| <b>M89</b>  | 5-3  | 1120 | 6840  | Thu | V Q2M (x3) DE NYZ (x2) (R5) QSA ? K                                                            | CW          | (JPL)    |
| <b>M89</b>  | 5-3  | 1127 | 4522  | Thu | V TG1Y (x3) DE X9FW (x2)                                                                       | CW          | (JPL)    |
| <b>M89</b>  | 5-3  | 1129 | 4508  | Thu | GC6U (x3) DE XYG2 (x2)                                                                         | CW          | (JPL)    |
| <b>M89</b>  | 5-3  | 1131 | 5109  | Thu | i.p.                                                                                           | CW          | (JPL)    |
| <b>M89</b>  | 5-3  | 1205 | 4356  | Thu | i.p.                                                                                           | CW          | (JPL)    |

|     |     |      |        |     |                                                                                             |    |       |
|-----|-----|------|--------|-----|---------------------------------------------------------------------------------------------|----|-------|
| M89 | 5-3 | 1207 | 4381   | Thu | i.p.                                                                                        | CW | (JPL) |
| M89 | 5-3 | 1212 | 5220   | Thu | i.p.                                                                                        | CW | (JPL) |
| M89 | 5-3 | 1215 | 6436   | Thu | i.p.                                                                                        | CW | (JPL) |
| M89 | 5-3 | 1217 | 6581   | Thu | i.p.                                                                                        | CW | (JPL) |
| M89 | 5-3 | 1223 | 3352   | Thu | i.p.                                                                                        | CW | (JPL) |
| M89 | 5-3 | 1231 | 4913   | Thu | i.p.                                                                                        | CW | (JPL) |
| M89 | 5-3 | 1233 | 4545   | Thu | i.p. DE XD1T                                                                                | CW | (JPL) |
| M89 | 5-3 | 1246 | 4856   | Thu | i.p. NR 4299 CK 51 39 0305 2030 RMKS 5623 TO 6527 =                                         | CW | (JPL) |
| M89 | 5-3 | 1250 | 4881   | Thu | i.p.                                                                                        | CW | (JPL) |
| M89 | 5-3 | 1253 | 4893   | Thu | i.p.                                                                                        | CW | (JPL) |
| M89 | 5-3 | 1255 | 4913   | Thu | i.p.                                                                                        | CW | (JPL) |
| M89 | 5-3 | 1307 | 5471   | Thu | i.p. NR ... CK 61 32 0305 2040 RMKS 5054 TO 5055 K                                          | CW | (JPL) |
| M89 | 5-3 | 1308 | 5638   | Thu | i.p.                                                                                        | CW | (JPL) |
| M89 | 5-3 | 1310 | 6644   | Thu | i.p.                                                                                        | CW | (JPL) |
| M89 | 5-3 | 1654 | 3611   | Thu | V TG1Y (x3) DE X9FW (x2)                                                                    | CW | (JPL) |
| M89 | 6-3 | 1132 | 6556   | Fri | i.p. RMKS 7935 TO 7255 =                                                                    | CW | (JPL) |
| M89 | 6-3 | 1135 | 6425   | Fri | i.p. NR 0600/EX 1934 RMKS 56523 TO 5688 = MN/9T AR K                                        | CW | (JPL) |
| M89 | 6-3 | 1139 | 6267   | Fri | i.p.                                                                                        | CW | (JPL) |
| M89 | 6-3 | 1140 | 6240   | Fri | i.p.                                                                                        | CW | (JPL) |
| M89 | 6-3 | 1146 | 5793   | Fri | i.p.                                                                                        | CW | (JPL) |
| M89 | 6-3 | 1154 | 5012   | Fri | i.p.                                                                                        | CW | (JPL) |
| M89 | 6-3 | 1204 | 4522   | Fri | V TG1Y (x3) DE X9FW (x2)                                                                    | CW | (JPL) |
| M89 | 6-3 | 1208 | 4508   | Fri | GC6U (x3) DE XYG2 (x2)                                                                      | CW | (JPL) |
| M89 | 6-3 | 1241 | 6842   | Fri | i.p. NR ..89 CK 51 75 0306 2030 RMKS 56.9 TO 5622 =                                         | CW | (JPL) |
| M89 | 6-3 | 1248 | 5782   | Fri | i.p. NR 8204 50 39 0306 2035 RMKS 6625 TO 6621 =                                            | CW | (JPL) |
| M89 | 6-3 | 1250 | 5763   | Fri | i.p.                                                                                        | CW | (JPL) |
| M89 | 6-3 | 1404 | 4396   | Fri | i.p. NR 0182 CK 61 47 0306 2200 RMKS 5635 TO 5621 =                                         | CW | (JPL) |
| M89 | 6-3 | 1449 | 6556   | Fri | i.p. DE 78Y6                                                                                | CW | (JPL) |
| M89 | 6-3 | 1630 | 3611   | Fri | V TG1Y (x3) DE X9FW (x2)                                                                    | CW | (JPL) |
| M89 | 6-3 | 1640 | 4933.5 | Fri | i.p. ABCDEFGHIJKLMNOPQRSTUVWXYZ TAU34567DN III AS VA M (repeated)                           | CW | (JPL) |
| M89 | 7-3 | 1204 | 4522   | Sat | V TG1Y (x3) DE X9FW (x2)                                                                    | CW | (JPL) |
| M89 | 7-3 | 1205 | 4508   | Sat | GC6U (x3) DE XYG2 (x2)                                                                      | CW | (JPL) |
| M89 | 7-3 | 1210 | 4965   | Sat | i.p.                                                                                        | CW | (JPL) |
| M89 | 7-3 | 1213 | 5566   | Sat | i.p.                                                                                        | CW | (JPL) |
| M89 | 7-3 | 1220 | 4860   | Sat | V Q2M (x3) DE NYZ (x2) (R5) QSA ? K                                                         | CW | (JPL) |
| M89 | 7-3 | 1220 | 6840   | Sat | V Q2M (x3) DE NYZ (x2) (R5) QSA ? K                                                         | CW | (JPL) |
| M89 | 7-3 | 1226 | 6234   | Sat | i.p.                                                                                        | CW | (JPL) |
| M89 | 7-3 | 1228 | 6666   | Sat | i.p. RMKS 0185 TO 3256 = ../TAC AR K. NR 2291 CK 77 79 0309 .... RMKS 0185 TO 3256 =        | CW | (JPL) |
| M89 | 7-3 | 1243 | 5554   | Sat | i.p. F NR 0259/EX 1633 RMKS CQ = A2S./F5K7 AR. NR ..2 CK 1... 0307 .... RMKS 5688 TO 6684 = | CW | (JPL) |
| M89 | 7-3 | 1253 | 7058   | Sat | i.p. NR 0211 CK 99 98 0307 2030 RMKS 3084 TO 3093 =                                         | CW | (JPL) |
| M89 | 7-3 | 1302 | 5419   | Sat | i.p.                                                                                        | CW | (JPL) |
| M89 | 7-3 | 1620 | 4860   | Sat | V Q2M (x3) DE NYZ (x2) (R5) QSA ? K                                                         | CW | (JPL) |
| M89 | 7-3 | 1620 | 6840   | Sat | V Q2M (x3) DE NYZ (x2) (R5) QSA ? K                                                         | CW | (JPL) |
| M89 | 7-3 | 1635 | 4933.5 | Sat | i.p. ABCDEFGHIJKLMNOPQRSTUVWXYZ TAU34567DN III AS VA M (repeated)                           | CW | (JPL) |
| M89 | 7-3 | 1640 | 5232   | Sat | i.p.                                                                                        | CW | (JPL) |
| M89 | 7-3 | 1705 | 4177   | Sat | i.p. RMKS 7903 TO 7245                                                                      | CW | (JPL) |



|     |      |      |         |     |                                                               |    |       |
|-----|------|------|---------|-----|---------------------------------------------------------------|----|-------|
| M89 | 7-3  | 1710 | 5665    | Sat | i.p.                                                          | CW | (JPL) |
| M89 | 7-3  | 1720 | 4860    | Sat | V Q2M (x3) DE NYZ (x2) (R5) QSA ? K                           | CW | (JPL) |
| M89 | 7-3  | 1720 | 6840    | Sat | V Q2M (x3) DE NYZ (x2) (R5) QSA ? K                           | CW | (JPL) |
| M89 | 7-3  | 1920 | 4860    | Sat | V Q2M (x3) DE NYZ (x2) (R5) QSA ? K                           | CW | (JPL) |
| M89 | 7-3  | 1920 | 6840    | Sat | V Q2M (x3) DE NYZ (x2) (R5) QSA ? K                           | CW | (JPL) |
| M89 | 8-3  | 1718 | 4508    | Sun | GC6U (x3) DE XYG2 (x2)                                        | CW | (JPL) |
| M89 | 8-3  | 1719 | 4522    | Sun | V TG1Y (x3) DE X9FW (x2)                                      | CW | (JPL) |
| M89 | 8-3  | 1720 | 4860    | Sun | V Q2M (x3) DE NYZ (x2) (R5) QSA ? K                           | CW | (JPL) |
| M89 | 8-3  | 1720 | 6840    | Sun | V Q2M (x3) DE NYZ (x2) (R5) QSA ? K                           | CW | (JPL) |
| M89 | 10-3 | 1112 | 4522    | Tue | V TG1Y (x3) DE X9FW (x2)                                      | CW | (JPL) |
| M89 | 10-3 | 1114 | 7716    | Tue | GC6U (x3) DE XYG2 (x2)                                        | CW | (JPL) |
| M89 | 10-3 | 1214 | 8001    | Tue | i.p.                                                          | CW | (JPL) |
| M89 | 10-3 | 1220 | 6840    | Tue | V Q2M (x3) DE NYZ (x2) (R5) QSA ? K                           | CW | (JPL) |
| M89 | 10-3 | 1231 | 8061    | Tue | i.p. NR 987 CK 95 28 0310 2033 RMKS 5377 TO 3000 =            | CW | (JPL) |
| M89 | 10-3 | 1250 | 6924    | Tue | i.p.                                                          | CW | (JPL) |
| M89 | 10-3 | 1255 | 6773    | Tue | i.p.                                                          | CW | (JPL) |
| M89 | 10-3 | 1646 | 4508    | Tue | GC6U (x3) DE XYG2 (x2)                                        | CW | (JPL) |
| M89 | 10-3 | 1715 | 3950    | Tue | VVV BYS (x3) DE OYS (x2) (R5) QSA ? K                         | CW | (JPL) |
| M89 | 10-3 | 1720 | 4860    | Tue | V Q2M (x3) DE NYZ (x2) (R5) QSA ? K                           | CW | (JPL) |
| M89 | 12-3 | 1052 | 4522    | Thu | V TG1Y (x3) DE X9FW (x2)                                      | CW | (JPL) |
| M89 | 12-3 | 1127 | 4326    | Thu | i.p. NR 051 CK 91 90 0312 ..15 RMKS 0888 TO 0208 =            | CW | (JPL) |
| M89 | 12-3 | 1136 | 5555.55 | Thu | i.p. NR ..... 85 0312 2230 RMKS ..38 TO 8343 = (Very weak)    | CW | (JPL) |
| M89 | 12-3 | 1220 | 4860    | Thu | V Q2M (x3) DE NYZ (x2) (R5) QSA ? K                           | CW | (JPL) |
| M89 | 12-3 | 1220 | 6840    | Thu | V Q2M (x3) DE NYZ (x2) (R5) QSA ? K                           | CW | (JPL) |
| M89 | 12-3 | 1223 | 4542    | Thu | XS30 i.p.                                                     | CW | (JPL) |
| M89 | 12-3 | 1609 | 4508    | Thu | GC6U (x3) DE XYG2 (x2)                                        | CW | (JPL) |
| M89 | 12-3 | 1622 | 3749    | Thu | i.p. F NR 159/EX 0021 RMKS 5858 TO 5842 = CX6/G AR            | CW | (JPL) |
| M89 | 12-3 | 1638 | 4933.5  | Thu | i.p. ABCDEFGHIJKLMNOPQRSTUVWXYZ TAU34567DN III AS VA M (rptd) | CW | (JPL) |
| M89 | 12-3 | 1953 | 7716    | Thu | GC6U (x3) DE XYG2 (x2)                                        | CW | (JPL) |
| M89 | 13-3 | 1107 | 4522    | Fri | V TG1Y (x3) DE X9FW (x2)                                      | CW | (JPL) |
| M89 | 13-3 | 1108 | 4508    | Fri | GC6U (x3) DE XYG2 (x2)                                        | CW | (JPL) |
| M89 | 13-3 | 1112 | 7883    | Fri | i.p.                                                          | CW | (JPL) |
| M89 | 13-3 | 1120 | 4860    | Fri | V Q2M (x3) DE NYZ (x2) (R5) QSA ? K                           | CW | (JPL) |
| M89 | 13-3 | 1120 | 6840    | Fri | V Q2M (x3) DE NYZ (x2) (R5) QSA ? K                           | CW | (JPL) |
| M89 | 13-3 | 1506 | 7652    | Fri | i.p.                                                          | CW | (JPL) |
| M89 | 13-3 | 1520 | 4860    | Fri | V Q2M (x3) DE NYZ (x2) (R5) QSA ? K                           | CW | (JPL) |
| M89 | 13-3 | 1520 | 6840    | Fri | V Q2M (x3) DE NYZ (x2) (R5) QSA ? K                           | CW | (JPL) |
| M89 | 13-3 | 1522 | 4583    | Fri | i.p.                                                          | CW | (JPL) |
| M89 | 13-3 | 1543 | 5430    | Fri | i.p.                                                          | CW | (JPL) |
| M89 | 14-3 | 1426 | 4522    | Sat | V TG1Y (x3) DE X9FW (x2)                                      | CW | (JPL) |
| M89 | 14-3 | 1944 | 4933.5  | Sat | i.p. ABCDEFGHIJKLMNOPQRSTUVWXYZ TAU34567DN III AS VA M (rptd) | CW | (JPL) |
| M89 | 15-3 | 0827 | 9251    | Sun | TG1Y (x3) DE X9FW (x2)                                        | CW | (JPL) |
| M89 | 15-3 | 0827 | 13362   | Sun | TG1Y (x3) DE X9FW (x2)                                        | CW | (JPL) |
| M89 | 15-3 | 0829 | 7716    | Sun | GC6U (x3) DE XYG2 (x2)                                        | CW | (JPL) |
| M89 | 15-3 | 1008 | 10425   | Sun | i.p.                                                          | CW | (JPL) |
| M89 | 15-3 | 1020 | 6840    | Sun | V Q2M (x3) DE NYZ (x2) (R5) QSA ? K                           | CW | (JPL) |
| M89 | 15-3 | 1034 | 4933.5  | Sun | i.p. ABCDEFGHIJKLMNOPQRSTUVWXYZ TAU34567DN III AS VA M (rptd) | CW | (JPL) |

|     |      |      |        |     |                                                                                                        |    |       |
|-----|------|------|--------|-----|--------------------------------------------------------------------------------------------------------|----|-------|
| M89 | 15-3 | 1620 | 4860   | Sun | V Q2M (x3) DE NYZ (x2) (R5) QSA ? K                                                                    | CW | (JPL) |
| M89 | 15-3 | 1620 | 6840   | Sun | V Q2M (x3) DE NYZ (x2) (R5) QSA ? K                                                                    | CW | (JPL) |
| M89 | 15-3 | 1626 | 4522   | Sun | V TG1Y (x3) DE X9FW (x2)                                                                               | CW | (JPL) |
| M89 | 15-3 | 1628 | 4508   | Sun | GC6U (x3) DE XYG2 (x2)                                                                                 | CW | (JPL) |
| M89 | 15-3 | 1645 | 4933.5 | Sun | i.p. ABCDEFGHIJKLMNOPQRSTUVWXYZ TAU34567DN III AS VA M (rptd)                                          | CW | (JPL) |
| M89 | 17-3 | 1012 | 4522   | Tue | V TG1Y (x3) DE X9FW (x2)                                                                               | CW | (JPL) |
| M89 | 17-3 | 1014 | 7716   | Tue | GC6U (x3) DE XYG2 (x2)                                                                                 | CW | (JPL) |
| M89 | 17-3 | 1020 | 6840   | Tue | V Q2M (x3) DE NYZ (x2) (R5) QSA ? K                                                                    | CW | (JPL) |
| M89 | 17-3 | 1030 | 7620   | Tue | VVV WNF (x3) DE FXM (x2) (R5) QSA ? K                                                                  | CW | (JPL) |
| M89 | 17-3 | 1030 | 8380   | Tue | VVV WNF (x3) DE FXM (x2) (R5) QSA ? K                                                                  | CW | (JPL) |
| M89 | 17-3 | 1058 | 7540   | Tue | MLK9 DE BGNK R WK NR 22.. SK                                                                           | CW | (JPL) |
| M89 | 17-3 | 1120 | 4860   | Tue | V Q2M (x3) DE NYZ (x2) (R5) QSA ? K                                                                    | CW | (JPL) |
| M89 | 17-3 | 1120 | 6840   | Tue | V Q2M (x3) DE NYZ (x2) (R5) QSA ? K                                                                    | CW | (JPL) |
| M89 | 17-3 | 1257 | 5397   | Tue | i.p. (very fast morse)                                                                                 | CW | (JPL) |
| M89 | 17-3 | 1306 | 4933.5 | Tue | i.p. ABCDEFGHIJKLMNOPQRSTUVWXYZ TAU34567DN III AS VA M (rptd)                                          | CW | (JPL) |
| M89 | 17-3 | 1310 | 3784   | Tue | i.p. NR 1840 CK 51 69 0317 2110 RMKS 4215 TO 4217 =                                                    | CW | (JPL) |
| M89 | 17-3 | 1314 | 3836   | Tue | i.p.                                                                                                   | CW | (JPL) |
| M89 | 17-3 | 1317 | 4444   | Tue | i.p. FF NR 0132/EX 1842 RMKS CQ = AAAAAA22UU2S 2299 TO 2279 RMKS 22990 TO 23279 = (Stopped)            | CW | (JPL) |
| M89 | 17-3 | 1320 | 4860   | Tue | V Q2M (x3) DE NYZ (x2) (R5) QSA ? K                                                                    | CW | (JPL) |
| M89 | 17-3 | 1320 | 6840   | Tue | V Q2M (x3) DE NYZ (x2) (R5) QSA ? K                                                                    | CW | (JPL) |
| M89 | 17-3 | 1321 | 4508   | Tue | GC6U (x3) DE XYG2 (x2)                                                                                 | CW | (JPL) |
| M89 | 17-3 | 1326 | 4545   | Tue | i.p.                                                                                                   | CW | (JPL) |
| M89 | 17-3 | 1331 | 5554   | Tue | i.p. NR 1385 CK 99 55 0317 2100 RMKS 4434 TO 4431 =                                                    | CW | (JPL) |
| M89 | 17-3 | 1545 | 3564   | Tue | i.p. QSL .... SK SK                                                                                    | CW | (JPL) |
| M89 | 20-3 | 0956 | 4522   | Fri | V TG1Y (x3) DE X9FW (x2)                                                                               | CW | (JPL) |
| M89 | 20-3 | 1005 | 10931  | Fri | Y3JI DE N6WX M89 (New frequency.                                                                       | CW | (JPL) |
| M89 | 20-3 | 1030 | 7620   | Fri | VVV WNF (x3) DE FXM (x2) (R5) QSA ? K                                                                  | CW | (JPL) |
| M89 | 20-3 | 1030 | 8350   | Fri | VVV WNF (x3) DE FXM (x2) (R5) QSA ? K                                                                  | CW | (JPL) |
| M89 | 20-3 | 1035 | 7540   | Fri | i.p. BGNB wkg outstations: F NR 0225/EX 1837 RMKS CQ = SG9/QU3 AR NR 0733 CK 52 79 0320 1836 RMKS CQ = | CW | (JPL) |
| M89 | 20-3 | 1035 | 7735   | Fri | i.p. DE W2ER)                                                                                          | CW | (JPL) |
| M89 | 20-3 | 1050 | 6852   | Fri | i.p. NIL SK                                                                                            | CW | (JPL) |
| M89 | 20-3 | 1537 | 4508   | Fri | GC6U (x3) DE XYG2 (x2)                                                                                 | CW | (JPL) |
| M89 | 20-3 | 1539 | 4522   | Fri | V TG1Y (x3) DE X9FW (x2)                                                                               | CW | (JPL) |
| M89 | 20-3 | 1544 | 7768   | Fri | Y3JI DE N6WX                                                                                           | CW | (JPL) |
| M89 | 20-3 | 1546 | 4933.5 | Fri | i.p. ABCDEFGHIJKLMNOPQRSTUVWXYZ TAU34567DN III AS VA M (rptd)                                          | CW | (JPL) |
| M89 | 21-3 | 1531 | 4508   | Sat | GC6U (x3) DE XYG2 (x2)                                                                                 | CW | (JPL) |
| M89 | 21-3 | 1531 | 4522   | Sat | V TG1Y (x3) DE X9FW (x2)                                                                               | CW | (JPL) |
| M89 | 21-3 | 1540 | 4913   | Sat | i.p.                                                                                                   | CW | (JPL) |
| M89 | 21-3 | 1543 | 4933.5 | Sat | i.p. ABCDEFGHIJKLMNOPQRSTUVWXYZ TAU34567DN III AS VA M (rptd)                                          | CW | (JPL) |
| M89 | 22-3 | 1005 | 4522   | Sun | V TG1Y (x3) DE X9FW (x2)                                                                               | CW | (JPL) |
| M89 | 22-3 | 1018 | 7716   | Sun | GC6U (x3) DE XYG2 (x2)                                                                                 | CW | (JPL) |
| M89 | 22-3 | 1020 | 6840   | Sun | V Q2M (x3) DE NYZ (x2) (R5) QSA ? K                                                                    | CW | (JPL) |
| M89 | 22-3 | 1030 | 7620   | Sun | VVV WNF (x3) DE FXM (x2) (R5) QSA ? K                                                                  | CW | (JPL) |
| M89 | 22-3 | 1030 | 8380   | Sun | VVV WNF (x3) DE FXM (x2) (R5) QSA ? K                                                                  | CW | (JPL) |
| M89 | 22-3 | 1044 | 4933.5 | Sun | i.p. ABCDEFGHIJKLMNOPQRSTUVWXYZ TAU34567DN III AS VA M (rptd)                                          | CW | (JPL) |

|     |      |      |         |     |                                                                                             |    |       |
|-----|------|------|---------|-----|---------------------------------------------------------------------------------------------|----|-------|
| M89 | 22-3 | 1120 | 4680    | Sun | V Q2M (x3) DE NYZ (x2) (R5) QSA ? K                                                         | CW | (JPL) |
| M89 | 22-3 | 1120 | 6840    | Sun | V Q2M (x3) DE NYZ (x2) (R5) QSA ? K                                                         | CW | (JPL) |
| M89 | 22-3 | 1552 | 3611    | Sun | V TG1Y (x3) DE X9FW (x2)                                                                    | CW | (JPL) |
| M89 | 23-3 | 1112 | 5307    | Mon | i.p. DE 8DBG NR 0432/CCK CK 91 99 0323 1950 RMKS 4922 TO 4949 =                             | CW | (JPL) |
| M89 | 23-3 | 1116 | 5369    | Mon | NR 074 CK 51 74 0323 1915 RMKS 5888 TO 5447 = NR 074 CK 51 74 0323 1915 RMKS 5447 TO 5888 = | CW | (JPL) |
| M89 | 23-3 | 1125 | 4508    | Mon | GC6U (x3) DE XYG2 (x2)                                                                      | CW | (JPL) |
| M89 | 23-3 | 1125 | 4522    | Mon | V TG1Y (x3) DE X9FW (x2)                                                                    | CW | (JPL) |
| M89 | 23-3 | 1135 | 4555    | Mon | i.p. NR 2002 CK 20 25 0323 1900 RMKS SRSS TO SR11 K                                         | CW | (JPL) |
| M89 | 23-3 | 1150 | 6457    | Mon | i.p. NR 933 CK 51 37 0323 2100 RMKS 3455 TO 3256 =                                          | CW | (JPL) |
| M89 | 23-3 | 1154 | 6666    | Mon | i.p. SVC 0370/2930/151 QSL ?                                                                | CW | (JPL) |
| M89 | 23-3 | 1201 | 5453    | Mon | i.p. NR 2300 CK 74 43 0323 1900 RMKS 5472 TO 5633 =                                         | CW | (JPL) |
| M89 | 23-3 | 1207 | 3574    | Mon | i.p.                                                                                        | CW | (JPL) |
| M89 | 23-3 | 1213 | 4397    | Mon | i.p.                                                                                        | CW | (JPL) |
| M89 | 23-3 | 1215 | 4444    | Mon | i.p. NR 550. CK 51 44 0323 2030 RMKS 0089 TO 0038 =                                         | CW | (JPL) |
| M89 | 23-3 | 1218 | 4553    | Mon | i.p.                                                                                        | CW | (JPL) |
| M89 | 23-3 | 1219 | 4635    | Mon | i.p.                                                                                        | CW | (JPL) |
| M89 | 23-3 | 1220 | 4680    | Mon | V Q2M (x3) DE NYZ (x2) (R5) QSA ? K                                                         | CW | (JPL) |
| M89 | 23-3 | 1220 | 6840    | Mon | V Q2M (x3) DE NYZ (x2) (R5) QSA ? K                                                         | CW | (JPL) |
| M89 | 23-3 | 1224 | 6633    | Mon | i.p. NIL SK BG                                                                              | CW | (JPL) |
| M89 | 23-3 | 1520 | 4680    | Mon | V Q2M (x3) DE NYZ (x2) (R5) QSA ? K                                                         | CW | (JPL) |
| M89 | 23-3 | 1520 | 6840    | Mon | V Q2M (x3) DE NYZ (x2) (R5) QSA ? K                                                         | CW | (JPL) |
| M89 | 26-3 | 1520 | 4680    | Thu | V Q2M (x3) DE NYZ (x2) (R5) QSA ? K                                                         | CW | (JPL) |
| M89 | 26-3 | 1520 | 6840    | Thu | V Q2M (x3) DE NYZ (x2) (R5) QSA ? K                                                         | CW | (JPL) |
| M89 | 26-3 | 1527 | 4508    | Thu | GC6U (x3) DE XYG2 (x2)                                                                      | CW | (JPL) |
| M89 | 26-3 | 1528 | 3611    | Thu | V TG1Y (x3) DE X9FW (x2)                                                                    | CW | (JPL) |
| M89 | 26-3 | 1528 | 4522    | Thu | V TG1Y (x3) DE X9FW (x2)                                                                    | CW | (JPL) |
| M89 | 26-3 | 1530 | 4720    | Thu | VVV WNF (x3) DE FXM (x2) (R5) QSA ? K                                                       | CW | (JPL) |
| M89 | 26-3 | 1549 | 4249    | Thu | i.p.                                                                                        | CW | (JPL) |
| M89 | 26-3 | 1603 | 6872    | Thu | i.p. NR 1002 CK 199 35 032... = RMKS 1828 TO 1840 =                                         | CW | (JPL) |
| M89 | 26-3 | 1610 | 4716    | Thu | i.p. NR 4705 CK 51 44 0327 0000 RMKS 0087 TO 2343 =                                         | CW | (JPL) |
| M89 | 26-3 | 1614 | 4725    | Thu | i.p.                                                                                        | CW | (JPL) |
| M89 | 27-3 | 1014 | 4522    | Fri | V TG1Y (x3) DE X9FW (x2)                                                                    | CW | (JPL) |
| M89 | 27-3 | 1020 | 6840    | Fri | V Q2M (x3) DE NYZ (x2) (R5) QSA ? K                                                         | CW | (JPL) |
| M89 | 27-3 | 1026 | 4933.5  | Fri | i.p. ABCDEFGHIJKLMNOPQRSTUVWXYZ TAU34567DN III AS VA M (rptd)                               | CW | (JPL) |
| M89 | 27-3 | 1030 | 7620    | Fri | VVV WNF (x3) DE FXM (x2) (R5) QSA ? K                                                       | CW | (JPL) |
| M89 | 27-3 | 1030 | 8350    | Fri | VVV WNF (x3) DE FXM (x2) (R5) QSA ? K                                                       | CW | (JPL) |
| M89 | 27-3 | 1040 | 9996.58 | Fri | i.p.                                                                                        | CW | (JPL) |
| M89 | 27-3 | 1057 | 8035    | Fri | i.p. SVC .../1851/1319 K NIL SK                                                             | CW | (JPL) |
| M89 | 27-3 | 1108 | 8001    | Fri | i.p. 1895 MSG NR NR 001 CK 227.... 1910 RMKS 4525 TO 4752 =                                 | CW | (JPL) |
| M89 | 27-3 | 1120 | 4680    | Fri | V Q2M (x3) DE NYZ (x2) (R5) QSA ? K                                                         | CW | (JPL) |
| M89 | 27-3 | 1120 | 6840    | Fri | V Q2M (x3) DE NYZ (x2) (R5) QSA ? K                                                         | CW | (JPL) |
| M89 | 27-3 | 1124 | 4239    | Fri | i.p. QSL NIL K                                                                              | CW | (JPL) |
| M89 | 27-3 | 1205 | 4508    | Fri | GC6U (x3) DE XYG2 (x2)                                                                      | CW | (JPL) |
| M89 | 27-3 | 1210 | 4810    | Fri | i.p. NR ... CK .. 9 0327 2130 RMKS 5640 TO 5620 =                                           | CW | (JPL) |
| M89 | 27-3 | 1220 | 4680    | Fri | V Q2M (x3) DE NYZ (x2) (R5) QSA ? K                                                         | CW | (JPL) |
| M89 | 27-3 | 1220 | 6840    | Fri | V Q2M (x3) DE NYZ (x2) (R5) QSA ? K                                                         | CW | (JPL) |

|     |      |      |        |     |                                                                                                                       |    |       |
|-----|------|------|--------|-----|-----------------------------------------------------------------------------------------------------------------------|----|-------|
| M89 | 27-3 | 1620 | 4680   | Fri | V Q2M (x3) DE NYZ (x2) (R5) QSA ? K                                                                                   | CW | (JPL) |
| M89 | 27-3 | 1620 | 6840   | Fri | V Q2M (x3) DE NYZ (x2) (R5) QSA ? K                                                                                   | CW | (JPL) |
| M89 | 28-3 | 1026 | 4522   | Sat | V TG1Y (x3) DE X9FW (x2)                                                                                              | CW | (JPL) |
| M89 | 28-3 | 1029 | 7716   | Sat | GC6U (x3) DE XYG2 (x2)                                                                                                | CW | (JPL) |
| M89 | 28-3 | 1650 | 4933.5 | Sat | i.p. ABCDEFGHIJKLMNOPQRSTUVWXYZ TAU34567DN III AS VA M (rptd)                                                         | CW | (JPL) |
| M89 | 30-3 | 1009 | 4522   | Mon | V TG1Y (x3) DE X9FW (x2)                                                                                              | CW | (JPL) |
| M89 | 30-3 | 1011 | 7716   | Mon | GC6U (x3) DE XYG2 (x2)                                                                                                | CW | (JPL) |
| M89 | 30-3 | 1020 | 6840   | Mon | V Q2M (x3) DE NYZ (x2) (R5) QSA ? K                                                                                   | CW | (JPL) |
| M89 | 30-3 | 1030 | 8350   | Mon | VVV WNF (x3) DE FXM (x2) (R5) QSA ? K                                                                                 | CW | (JPL) |
| M89 | 30-3 | 1035 | 8077   | Mon | Out stations wkg Control - Radio check- Q82C FANN B8FF LA5N KAHA JX3K etc - Control - GYU8 is on different frequency. | CW | (JPL) |
| M89 | 30-3 | 1050 | 7530   | Mon | i.p. 3BPN to out stations: F NR 0154/EX 1852 RMKS CQ = DI9/YN AR                                                      | CW | (JPL) |
| M89 | 30-3 | 1120 | 4860   | Mon | V Q2M (x3) DE NYZ (x2) (R5) QSA ? K                                                                                   | CW | (JPL) |
| M89 | 30-3 | 1120 | 6840   | Mon | V Q2M (x3) DE NYZ (x2) (R5) QSA ? K                                                                                   | CW | (JPL) |
| M89 | 30-3 | 1845 | 3611   | Mon | V TG1Y (x3) DE X9FW (x2)                                                                                              | CW | (JPL) |
| M95 | 1-3  | 1145 | 4542   | Sun | BNGC DE XS30 NR 0200 CK 510 35 0301 1548 = //6876 kHz                                                                 | CW | (JPL) |
| M95 | 1-3  | 1145 | 6876   | Sun | BNGC DE XS30 NR 0200 CK 510 35 0301 1548 = //4542 kHz                                                                 | CW | (JPL) |
| M95 | 1-3  | 1156 | 4156   | Sun | NR 041 CK 23 35 0301 1558 = NR 021 CK 50 35 0301 1501 = NR 02 CK 185 35 0301 1530 = //9042, 6352, 4156 kHz            | CW | (JPL) |
| M95 | 1-3  | 1156 | 6352   | Sun | NR 041 CK 23 35 0301 1558 = NR 021 CK 50 35 0301 1501 = NR 02 CK 185 35 0301 1530 = //9042, 6352, 4156 kHz            | CW | (JPL) |
| M95 | 1-3  | 1156 | 9042   | Sun | NR 041 CK 23 35 0301 1558 = NR 021 CK 50 35 0301 1501 = NR 02 CK 185 35 0301 1530 = //9042, 6352, 4156 kHz            | CW | (JPL) |
| M95 | 1-3  | 1233 | 6557   | Sun | V WCJJ (x3) DE HBDD (x2)                                                                                              | CW | (JPL) |
| M95 | 1-3  | 1353 | 3903   | Sun | V WCJJ (x3) DE HBDD (x2)                                                                                              | CW | (JPL) |
| M95 | 3-3  | 0200 | 10393  | Tue | i.p. NIL SK                                                                                                           | CW | (JPL) |
| M95 | 3-3  | 1048 | 6557   | Tue | V WCJJ (x3) DE HBDD (x2)                                                                                              | CW | (JPL) |
| M95 | 3-3  | 1146 | 4542   | Tue | BNGC DE XS30 NR 0208 CK 59 35 0303 1516 = //6876 kHz                                                                  | CW | (JPL) |
| M95 | 3-3  | 1146 | 6876   | Tue | BNGC DE XS30 NR 0208 CK 59 35 0303 1516 = //4542 kHz                                                                  | CW | (JPL) |
| M95 | 3-3  | 1151 | 4156   | Tue | NR 05 CK 152 35 0303 1558 = //9042, 6352, 4156 kHz                                                                    | CW | (JPL) |
| M95 | 3-3  | 1151 | 6352   | Tue | NR 05 CK 152 35 0303 1558 = //9042, 6352, 4156 kHz                                                                    | CW | (JPL) |
| M95 | 3-3  | 1151 | 9042   | Tue | NR 05 CK 152 35 0303 1558 = //9042, 6352, 4156 kHz                                                                    | CW | (JPL) |
| M95 | 4-3  | 1750 | 3903   | Wed | V WCJJ (x3) DE HBDD (x2)                                                                                              | CW | (JPL) |
| M95 | 4-3  | 1752 | 4522   | Wed | V TG1Y (x3) DE X9FW (x2)                                                                                              | CW | (JPL) |
| M95 | 5-3  | 1125 | 6557   | Thu | V WCJJ (x3) DE HBDD (x2)                                                                                              | CW | (JPL) |
| M95 | 5-3  | 1149 | 4542   | Thu | BNGC DE XS30 NR 0.21 CK 524 35 0305 .103 = //6876 kHz                                                                 | CW | (JPL) |
| M95 | 5-3  | 1149 | 6876   | Thu | BNGC DE XS30 NR 0.21 CK 524 35 0305 .103 = //4542 kHz                                                                 | CW | (JPL) |
| M95 | 5-3  | 1155 | 4156   | Thu | NR 10 CK .25 35 0305 1538 //9042, 6352, 4156 kHz                                                                      | CW | (JPL) |
| M95 | 5-3  | 1155 | 6352   | Thu | NR 10 CK .25 35 0305 1538 //9042, 6352, 4156 kHz                                                                      | CW | (JPL) |
| M95 | 5-3  | 1155 | 9042   | Thu | NR 10 CK .25 35 0305 1538 //9042, 6352, 4156 kHz                                                                      | CW | (JPL) |
| M95 | 5-3  | 1210 | 5036   | Thu | i.p. RMKS .... TO 5209 =                                                                                              | CW | (JPL) |
| M95 | 5-3  | 1243 | 4829   | Thu | i.p. NR 3849/CCK CK 91 19 135.. RMKS 2007 4152 TO 4109 =                                                              | CW | (JPL) |
| M95 | 5-3  | 1255 | 5036   | Thu | i.p. NR .../CCCK CK 99 47 0305 2050 RMKS 7654 TO 7585 =                                                               | CW | (JPL) |
| M95 | 5-3  | 1655 | 3903   | Thu | V WCJJ (x3) DE HBDD (x2)                                                                                              | CW | (JPL) |
| M95 | 6-3  | 1130 | 6557   | Fri | V WCJJ (x3) DE HBDD (x2)                                                                                              | CW | (JPL) |
| M95 | 6-3  | 1211 | 4156   | Fri | NR 056 CK 35 35 0306 1650 = //9042, 6352, 4156 kHz                                                                    | CW | (JPL) |
| M95 | 6-3  | 1211 | 6352   | Fri | NR 056 CK 35 35 0306 1650 = //9042, 6352, 4156 kHz                                                                    | CW | (JPL) |

|     |      |      |       |     |                                                                                                               |    |       |
|-----|------|------|-------|-----|---------------------------------------------------------------------------------------------------------------|----|-------|
| M95 | 6-3  | 1211 | 9042  | Fri | NR 056 CK 35 35 0306 1650 = //9042, 6352, 4156 kHz                                                            | CW | (JPL) |
| M95 | 6-3  | 1234 | 7821  | Fri | NR 035/CCK CK 51 37 0306 2030 RMKS 5014 TO 5408 5089 5231 5298 =                                              | CW | (JPL) |
| M95 | 6-3  | 1628 | 3903  | Fri | V WCJJ (x3) DE HBDD (x2)                                                                                      | CW | (JPL) |
| M95 | 7-3  | 1120 | 4860  | Sat | V Q2M (x3) DE NYZ (x2) (R5) QSA ? K                                                                           | CW | (JPL) |
| M95 | 7-3  | 1120 | 6840  | Sat | V Q2M (x3) DE NYZ (x2) (R5) QSA ? K                                                                           | CW | (JPL) |
| M95 | 7-3  | 1153 | 4156  | Sat | i.p. NR 14 CK 191 35 0307 1500 = //9042, 6252, 4156 kHz                                                       | CW | (JPL) |
| M95 | 7-3  | 1153 | 6252  | Sat | i.p. NR 14 CK 191 35 0307 1500 = //9042, 6252, 4156 kHz                                                       | CW | (JPL) |
| M95 | 7-3  | 1153 | 9042  | Sat | i.p. NR 14 CK 191 35 0307 1500 = //9042, 6252, 4156 kHz                                                       | CW | (JPL) |
| M95 | 7-3  | 1615 | 3903  | Sat | V WCJJ (x3) DE HBDD (x2)                                                                                      | CW | (JPL) |
| M95 | 10-3 | 1107 | 6557  | Tue | V WCJJ (x3) DE HBDD (x2)                                                                                      | CW | (JPL) |
| M95 | 10-3 | 1107 | 11475 | Tue | V WCJJ (x3) DE HBDD (x2)                                                                                      | CW | (JPL) |
| M95 | 10-3 | 1145 | 4542  | Tue | BNGC DE XS30 NR 0235 CK 33 35 0310 153. = //6876 kHz                                                          | CW | (JPL) |
| M95 | 10-3 | 1145 | 6876  | Tue | BNGC DE XS30 NR 0235 CK 33 35 0310 153. = //4542 kHz                                                          | CW | (JPL) |
| M95 | 10-3 | 1151 | 4156  | Tue | NR 039 CK 50 35 0310 1458 = NR 20 CK 174 35 0310 1534 = //9042, 6352, 4156 kHz                                | CW | (JPL) |
| M95 | 10-3 | 1151 | 6352  | Tue | NR 039 CK 50 35 0310 1458 = NR 20 CK 174 35 0310 1534 = //9042, 6352, 4156 kHz                                | CW | (JPL) |
| M95 | 10-3 | 1151 | 9042  | Tue | NR 039 CK 50 35 0310 1458 = NR 20 CK 174 35 0310 1534 = //9042, 6352, 4156 kHz                                | CW | (JPL) |
| M95 | 10-3 | 1205 | 5109  | Tue | NR ....CCK CK 72 .4 0310 .800 RMKS .... TO 5454 =                                                             | CW | (JPL) |
| M95 | 10-3 | 1252 | 6886  | Tue | V WCJJ (x3) DE HBDD (x2)                                                                                      | CW | (JPL) |
| M95 | 10-3 | 1658 | 3903  | Tue | V WCJJ (x3) DE HBDD (x2)                                                                                      | CW | (JPL) |
| M95 | 12-3 | 1049 | 6557  | Thu | V WCJJ (x3) DE HBDD (x2)                                                                                      | CW | (JPL) |
| M95 | 12-3 | 1049 | 11475 | Thu | V WCJJ (x3) DE HBDD (x2)                                                                                      | CW | (JPL) |
| M95 | 12-3 | 1149 | 4156  | Thu | NR 043 CK 45 35 0312 1454 = NR 074 CK 15 35 0312 1527 = NR 24 CK 137 35 0312 1545 =<br>//9042, 6352, 4156 kHz | CW | (JPL) |
| M95 | 12-3 | 1149 | 6352  | Thu | NR 043 CK 45 35 0312 1454 = NR 074 CK 15 35 0312 1527 = NR 24 CK 137 35 0312 1545 =<br>//9042, 6352, 4156 kHz | CW | (JPL) |
| M95 | 12-3 | 1149 | 9042  | Thu | NR 043 CK 45 35 0312 1454 = NR 074 CK 15 35 0312 1527 = NR 24 CK 137 35 0312 1545 =<br>//9042, 6352, 4156 kHz | CW | (JPL) |
| M95 | 12-3 | 1612 | 3903  | Thu | V WCJJ (x3) DE HBDD (x2)                                                                                      | CW | (JPL) |
| M95 | 12-3 | 1612 | 6886  | Thu | V WCJJ (x3) DE HBDD (x2) Chirpy sound.                                                                        | CW | (JPL) |
| M95 | 13-3 | 1049 | 6557  | Fri | V WCJJ (x3) DE HBDD (x2)                                                                                      | CW | (JPL) |
| M95 | 13-3 | 1058 | 11475 | Fri | V WCJJ (x3) DE HBDD (x2) Chirpy sound.                                                                        | CW | (JPL) |
| M95 | 13-3 | 1149 | 4156  | Fri | NR 25 CK 137 35 0313 1455 = //9042, 6352, 4156 kHz                                                            | CW | (JPL) |
| M95 | 13-3 | 1149 | 6352  | Fri | NR 25 CK 137 35 0313 1455 = //9042, 6352, 4156 kHz                                                            | CW | (JPL) |
| M95 | 13-3 | 1149 | 9042  | Fri | NR 25 CK 137 35 0313 1455 = //9042, 6352, 4156 kHz                                                            | CW | (JPL) |
| M95 | 13-3 | 1425 | 3903  | Fri | V WCJJ (x3) DE HBDD (x2)                                                                                      | CW | (JPL) |
| M95 | 13-3 | 1425 | 6886  | Fri | V WCJJ (x3) DE HBDD (x2) Note: Chirpy sound.                                                                  | CW | (JPL) |
| M95 | 13-3 | 1526 | 3903  | Fri | V WCJJ (x3) DE HBDD (x2)                                                                                      | CW | (JPL) |
| M95 | 13-3 | 1526 | 6886  | Fri | V WCJJ (x3) DE HBDD (x2) Chirpy sound.                                                                        | CW | (JPL) |
| M95 | 15-3 | 0832 | 11475 | Sun | V WCJJ (x3) DE HBDD (x2) Chirpy sound.                                                                        | CW | (JPL) |
| M95 | 15-3 | 1036 | 6557  | Sun | V WCJJ (x3) DE HBDD (x2)                                                                                      | CW | (JPL) |
| M95 | 16-3 | 1634 | 3903  | Mon | V WCJJ (x3) DE HBDD (x2)                                                                                      | CW | (JPL) |
| M95 | 16-3 | 1634 | 6886  | Mon | V WCJJ (x3) DE HBDD (x2) Chirpy sound.                                                                        | CW | (JPL) |
| M95 | 17-3 | 1008 | 6557  | Tue | V WCJJ (x3) DE HBDD (x2)                                                                                      | CW | (JPL) |
| M95 | 17-3 | 1008 | 11475 | Tue | V WCJJ (x3) DE HBDD (x2) Chirpy sound.                                                                        | CW | (JPL) |
| M95 | 17-3 | 1145 | 4542  | Tue | BNGC DE XS30                                                                                                  | CW | (JPL) |
| M95 | 17-3 | 1154 | 4156  | Tue | NR 053 CK 48 35 0317 1500 = NR 34 CK 224 35 0317 1525 = //9042, 6352, 4156 kHz                                | CW | (JPL) |
| M95 | 17-3 | 1154 | 6352  | Tue | NR 053 CK 48 35 0317 1500 = NR 34 CK 224 35 0317 1525 = //9042, 6352, 4156 kHz                                | CW | (JPL) |

|     |      |      |       |     |                                                                                                           |    |       |
|-----|------|------|-------|-----|-----------------------------------------------------------------------------------------------------------|----|-------|
| M95 | 17-3 | 1154 | 9042  | Tue | NR 053 CK 48 35 0317 1500 = NR 34 CK 224 35 0317 1525 = //9042, 6352, 4156 kHz                            | CW | (JPL) |
| M95 | 17-3 | 1541 | 3903  | Tue | V WCJJ (x3) DE HBDD (x2)                                                                                  | CW | (JPL) |
| M95 | 17-3 | 1541 | 6886  | Tue | V WCJJ (x3) DE HBDD (x2) Chirpy sound.                                                                    | CW | (JPL) |
| M95 | 20-3 | 0952 | 11475 | Fri | V WCJJ (x3) DE HBDD (x2) Chirpy sound and in traffic.                                                     | CW | (JPL) |
| M95 | 20-3 | 1054 | 6557  | Fri | V WCJJ (x3) DE HBDD (x2) //11475 kHz                                                                      | CW | (JPL) |
| M95 | 20-3 | 1054 | 11475 | Fri | V WCJJ (x3) DE HBDD (x2) //6557 kHz                                                                       | CW | (JPL) |
| M95 | 20-3 | 1138 | 4542  | Fri | BNGC DE XS30 NR 0268 CK 214 35 0320 1539 = //6876 kHz                                                     | CW | (JPL) |
| M95 | 20-3 | 1138 | 6876  | Fri | BNGC DE XS30 NR 0268 CK 214 35 0320 1539 = //4542 kHz                                                     | CW | (JPL) |
| M95 | 20-3 | 1151 | 4156  | Fri | NR 02 CK 32 49 0319 1542 = NR 059 CK 51 35 0320 1511 = NR 40 CK 129 35 0320 1433 = //9042, 6352, 4156 kHz | CW | (JPL) |
| M95 | 20-3 | 1151 | 6352  | Fri | NR 02 CK 32 49 0319 1542 = NR 059 CK 51 35 0320 1511 = NR 40 CK 129 35 0320 1433 = //9042, 6352, 4156 kHz | CW | (JPL) |
| M95 | 20-3 | 1151 | 9042  | Fri | NR 02 CK 32 49 0319 1542 = NR 059 CK 51 35 0320 1511 = NR 40 CK 129 35 0320 1433 = //9042, 6352, 4156 kHz | CW | (JPL) |
| M95 | 20-3 | 1541 | 3903  | Fri | V WCJJ (x3) DE HBDD (x2)                                                                                  | CW | (JPL) |
| M95 | 20-3 | 1541 | 6886  | Fri | V WCJJ (x3) DE HBDD (x2) Chirpy sound.                                                                    | CW | (JPL) |
| M95 | 21-3 | 1528 | 3903  | Sat | V WCJJ (x3) DE HBDD (x2)                                                                                  | CW | (JPL) |
| M95 | 21-3 | 1528 | 6886  | Sat | V WCJJ (x3) DE HBDD (x2) Chirpy sound.                                                                    | CW | (JPL) |
| M95 | 22-3 | 1001 | 6557  | Sun | V WCJJ (x3) DE HBDD (x2)                                                                                  | CW | (JPL) |
| M95 | 22-3 | 1001 | 11475 | Sun | V WCJJ (x3) DE HBDD (x2) Chirpy sound and in traffic.                                                     | CW | (JPL) |
| M95 | 22-3 | 1145 | 4542  | Sun | BNGC DE XS30 //6876 kHz                                                                                   | CW | (JPL) |
| M95 | 22-3 | 1145 | 6876  | Sun | BNGC DE XS30 //4542 kHz                                                                                   | CW | (JPL) |
| M95 | 22-3 | 1150 | 4156  | Sun | NR 063 CK 39 35 0322 1520 = NR 44 CK 134 35 0322 1621 = //9042, 6352, 4156 kHz                            | CW | (JPL) |
| M95 | 22-3 | 1150 | 6352  | Sun | NR 063 CK 39 35 0322 1520 = NR 44 CK 134 35 0322 1621 = //9042, 6352, 4156 kHz                            | CW | (JPL) |
| M95 | 22-3 | 1150 | 9042  | Sun | NR 063 CK 39 35 0322 1520 = NR 44 CK 134 35 0322 1621 = //9042, 6352, 4156 kHz                            | CW | (JPL) |
| M95 | 23-3 | 1110 | 6557  | Mon | V WCJJ (x3) DE HBDD (x2)                                                                                  | CW | (JPL) |
| M95 | 23-3 | 1110 | 11475 | Mon | V WCJJ (x3) DE HBDD (x2) Chirpy sound.                                                                    | CW | (JPL) |
| M95 | 23-3 | 1135 | 4542  | Mon | BNGC DE XS30 NR 0274 CK 298 35 0323 1501 = //6876 kHz                                                     | CW | (JPL) |
| M95 | 23-3 | 1135 | 6876  | Mon | BNGC DE XS30 NR 0274 CK 298 35 0323 1501 = //4542 kHz                                                     | CW | (JPL) |
| M95 | 23-3 | 1149 | 4156  | Mon | NR 45 CK 133 35 0323 1518 = //9042, 6352, 4156 kHz                                                        | CW | (JPL) |
| M95 | 23-3 | 1149 | 6352  | Mon | NR 45 CK 133 35 0323 1518 = //9042, 6352, 4156 kHz                                                        | CW | (JPL) |
| M95 | 23-3 | 1149 | 9042  | Mon | NR 45 CK 133 35 0323 1518 = //9042, 6352, 4156 kHz                                                        | CW | (JPL) |
| M95 | 23-3 | 1510 | 3903  | Mon | V WCJJ (x3) DE HBDD (x2)                                                                                  | CW | (JPL) |
| M95 | 23-3 | 1510 | 6886  | Mon | V WCJJ (x3) DE HBDD (x2) Chirpy sound                                                                     | CW | (JPL) |
| M95 | 26-3 | 1526 | 3903  | Thu | V WCJJ (x3) DE HBDD (x2)                                                                                  | CW | (JPL) |
| M95 | 26-3 | 1526 | 6886  | Thu | V WCJJ (x3) DE HBDD (x2) Chirpy sound                                                                     | CW | (JPL) |
| M95 | 27-3 | 1012 | 11475 | Fri | V WCJJ (x3) DE HBDD (x2) i.p. Chirpy sound                                                                | CW | (JPL) |
| M95 | 27-3 | 1141 | 4542  | Fri | BNGC DE XS30 NR 0232 CK 343 35 0227 1549 = (Did not sends callup - went stay to msg) //6876 kHz           | CW | (JPL) |
| M95 | 27-3 | 1141 | 6876  | Fri | BNGC DE XS30 NR 0232 CK 343 35 0227 1549 = (Did not sends callup - went stay to msg) //4542 kHz           | CW | (JPL) |
| M95 | 27-3 | 1149 | 4156  | Fri | NR 073 CK 41 35 0327 1517 = NR 54 CK 145 35 0327 1535 = //9042, 6352, 4156 kHz                            | CW | (JPL) |
| M95 | 27-3 | 1149 | 6352  | Fri | NR 073 CK 41 35 0327 1517 = NR 54 CK 145 35 0327 1535 = //9042, 6352, 4156 kHz                            | CW | (JPL) |
| M95 | 27-3 | 1149 | 9042  | Fri | NR 073 CK 41 35 0327 1517 = NR 54 CK 145 35 0327 1535 = //9042, 6352, 4156 kHz                            | CW | (JPL) |
| M95 | 27-3 | 1207 | 6886  | Fri | V WCJJ (x3) DE HBDD (x2) Chirpy sound                                                                     | CW | (JPL) |
| M95 | 27-3 | 1650 | 3903  | Fri | V WCJJ (x3) DE HBDD (x2)                                                                                  | CW | (JPL) |
| M95 | 28-3 | 1023 | 11475 | Sat | V WCJJ (x3) DE HBDD (x2) Chirpy sound                                                                     | CW | (JPL) |



|            |      |      |       |     |                                                                                |     |       |
|------------|------|------|-------|-----|--------------------------------------------------------------------------------|-----|-------|
| <b>M95</b> | 28-3 | 1141 | 4542  | Sat | NR 1284 CK 312 35 0328 1551 = //6876 kHz                                       | CW  | (JPL) |
| <b>M95</b> | 28-3 | 1141 | 6876  | Sat | NR 1284 CK 312 35 0328 1551 = //4542 kHz                                       | CW  | (JPL) |
| <b>M95</b> | 28-3 | 1534 | 6886  | Sat | V WCJJ (x3) DE HBDD (x2) Chirpy sound                                          | CW  | (JPL) |
| <b>M95</b> | 28-3 | 1705 | 3903  | Sat | V WCJJ (x3) DE HBDD (x2)                                                       | CW  | (JPL) |
| <b>M95</b> | 30-3 | 1006 | 11475 | Mon | V WCJJ (x3) DE HBDD (x2) Chirpy sound.                                         | CW  | (JPL) |
| <b>M95</b> | 30-3 | 1139 | 4542  | Mon | BNGC DE XS30 NR 0288 CK 332 35 0330 1715 = //6876 kHz                          | CW  | (JPL) |
| <b>M95</b> | 30-3 | 1139 | 6876  | Mon | BNGC DE XS30 NR 0288 CK 332 35 0330 1715 = //4542 kHz                          | CW  | (JPL) |
| <b>M95</b> | 30-3 | 1150 | 4156  | Mon | NR 079 CK 38 35 0330 1450 = NR 50 CK 185 35 0330 1514 = //9042, 6352, 4156 kHz | CW  | (JPL) |
| <b>M95</b> | 30-3 | 1150 | 6352  | Mon | NR 079 CK 38 35 0330 1450 = NR 50 CK 185 35 0330 1514 = //9042, 6352, 4156 kHz | CW  | (JPL) |
| <b>M95</b> | 30-3 | 1150 | 9042  | Mon | NR 079 CK 38 35 0330 1450 = NR 50 CK 185 35 0330 1514 = //9042, 6352, 4156 kHz | CW  | (JPL) |
| <b>M95</b> | 30-3 | 1847 | 6886  | Mon | V WCJJ (x3) DE HBDD (x2) Chirpy sound.                                         | CW  | (JPL) |
| <b>MX</b>  | 7-3  | 1648 | 5445  | Sat | V                                                                              | CW  | (JPL) |
| <b>MX</b>  | 8-3  | 1707 | 5445  | Sun | V                                                                              | CW  | (JPL) |
| <b>MX</b>  | 10-3 | 1705 | 5445  | Tue | V                                                                              | CW  | (JPL) |
| <b>MX</b>  | 13-3 | 1544 | 5445  | Fri | V                                                                              | CW  | (JPL) |
| <b>MX</b>  | 16-3 | 1647 | 5445  | Mon | V                                                                              | CW  | (JPL) |
| <b>MX</b>  | 17-3 | 1333 | 5590  | Tue | V                                                                              | CW  | (JPL) |
| <b>MX</b>  | 17-3 | 1510 | 5445  | Tue | V                                                                              | CW  | (JPL) |
| <b>MX</b>  | 21-3 | 1547 | 5445  | Sat | V                                                                              | CW  | (JPL) |
| <b>MX</b>  | 23-3 | 1519 | 5445  | Mon | V                                                                              | CW  | (JPL) |
| <b>MX</b>  | 26-3 | 1530 | 5445  | Thu | V                                                                              | CW  | (JPL) |
| <b>MX</b>  | 30-3 | 1554 | 5445  | Mon | V                                                                              | CW  | (JPL) |
| <b>P03</b> | 1-3  | 0530 | 4536  | Sun | Polish intel.                                                                  | PSK | (AB)  |
| <b>P03</b> | 1-3  | 0535 | 4536  | Sun | Polish intel.                                                                  | PSK | (AB)  |
| <b>P03</b> | 1-3  | 1020 | 6252  | Sun | Polish intel.                                                                  | PSK | (AB)  |
| <b>P03</b> | 1-3  | 1025 | 6252  | Sun | Polish intel.                                                                  | PSK | (AB)  |
| <b>P03</b> | 1-3  | 1100 | 7637  | Sun | Polish intel.                                                                  | PSK | (AB)  |
| <b>P03</b> | 1-3  | 1105 | 7637  | Sun | Polish intel.                                                                  | PSK | (AB)  |
| <b>P03</b> | 1-3  | 1220 | 22992 | Sun | Polish intel.                                                                  | PSK | (AB)  |
| <b>P03</b> | 1-3  | 1225 | 22992 | Sun | Polish intel.                                                                  | PSK | (AB)  |
| <b>P03</b> | 1-3  | 1245 | 5082  | Sun | Polish intel.                                                                  | PSK | (AB)  |
| <b>P03</b> | 1-3  | 1250 | 5082  | Sun | Polish intel.                                                                  | PSK | (AB)  |
| <b>P03</b> | 1-3  | 1515 | 17441 | Sun | Polish intel.                                                                  | PSK | (AB)  |
| <b>P03</b> | 1-3  | 1520 | 17441 | Sun | Polish intel.                                                                  | PSK | (AB)  |
| <b>P03</b> | 1-3  | 1725 | 12385 | Sun | Polish intel.                                                                  | PSK | (AB)  |
| <b>P03</b> | 1-3  | 1730 | 12385 | Sun | Polish intel.                                                                  | PSK | (AB)  |
| <b>P03</b> | 1-3  | 1950 | 7600  | Sun | Polish intel.                                                                  | PSK | (AB)  |
| <b>P03</b> | 1-3  | 1955 | 7600  | Sun | Polish intel.                                                                  | PSK | (AB)  |
| <b>P03</b> | 2-3  | 1220 | 22992 | Mon | Polish intel.                                                                  | PSK | (AB)  |
| <b>P03</b> | 2-3  | 1225 | 22992 | Mon | Polish intel.                                                                  | PSK | (AB)  |
| <b>P03</b> | 3-3  | 1725 | 12385 | Tue | Polish intel.                                                                  | PSK | (AB)  |
| <b>P03</b> | 3-3  | 1730 | 12385 | Tue | Polish intel.                                                                  | PSK | (AB)  |
| <b>P03</b> | 5-3  | 1950 | 7600  | Thu | Polish intel.                                                                  | PSK | (AB)  |
| <b>P03</b> | 5-3  | 1955 | 7600  | Thu | Polish intel.                                                                  | PSK | (AB)  |
| <b>P03</b> | 6-3  | 0530 | 4536  | Fri | Polish intel.                                                                  | PSK | (AB)  |
| <b>P03</b> | 6-3  | 0535 | 4536  | Fri | Polish intel.                                                                  | PSK | (AB)  |
| <b>P03</b> | 6-3  | 1100 | 7637  | Fri | Polish intel.                                                                  | PSK | (AB)  |

|     |      |      |       |     |               |     |      |
|-----|------|------|-------|-----|---------------|-----|------|
| P03 | 6-3  | 1105 | 7637  | Fri | Polish intel. | PSK | (AB) |
| P03 | 6-3  | 1515 | 17441 | Fri | Polish intel. | PSK | (AB) |
| P03 | 6-3  | 1520 | 17441 | Fri | Polish intel. | PSK | (AB) |
| P03 | 7-3  | 1020 | 6252  | Sat | Polish intel. | PSK | (AB) |
| P03 | 7-3  | 1025 | 6252  | Sat | Polish intel. | PSK | (AB) |
| P03 | 7-3  | 1245 | 5082  | Sat | Polish intel. | PSK | (AB) |
| P03 | 7-3  | 1250 | 5082  | Sat | Polish intel. | PSK | (AB) |
| P03 | 7-3  | 1310 | 9963  | Sat | Polish intel. | PSK | (AB) |
| P03 | 7-3  | 1315 | 9963  | Sat | Polish intel. | PSK | (AB) |
| P03 | 8-3  | 0530 | 4536  | Sun | Polish intel. | PSK | (AB) |
| P03 | 8-3  | 0535 | 4536  | Sun | Polish intel. | PSK | (AB) |
| P03 | 8-3  | 1020 | 6252  | Sun | Polish intel. | PSK | (AB) |
| P03 | 8-3  | 1025 | 6252  | Sun | Polish intel. | PSK | (AB) |
| P03 | 8-3  | 1100 | 7637  | Sun | Polish intel. | PSK | (AB) |
| P03 | 8-3  | 1105 | 7637  | Sun | Polish intel. | PSK | (AB) |
| P03 | 8-3  | 1245 | 5082  | Sun | Polish intel. | PSK | (AB) |
| P03 | 8-3  | 1250 | 5082  | Sun | Polish intel. | PSK | (AB) |
| P03 | 8-3  | 1515 | 17441 | Sun | Polish intel. | PSK | (AB) |
| P03 | 8-3  | 1520 | 17441 | Sun | Polish intel. | PSK | (AB) |
| P03 | 8-3  | 1725 | 12385 | Sun | Polish intel. | PSK | (AB) |
| P03 | 8-3  | 1730 | 12385 | Sun | Polish intel. | PSK | (AB) |
| P03 | 8-3  | 1950 | 7600  | Sun | Polish intel. | PSK | (AB) |
| P03 | 8-3  | 1955 | 7600  | Sun | Polish intel. | PSK | (AB) |
| P03 | 9-3  | 1220 | 22992 | Mon | Polish intel. | PSK | (AB) |
| P03 | 9-3  | 1225 | 22992 | Mon | Polish intel. | PSK | (AB) |
| P03 | 10-3 | 1725 | 12385 | Tue | Polish intel. | PSK | (AB) |
| P03 | 10-3 | 1730 | 12385 | Tue | Polish intel. | PSK | (AB) |
| P03 | 11-3 | 1310 | 9963  | Wed | Polish intel. | PSK | (AB) |
| P03 | 11-3 | 1315 | 9963  | Wed | Polish intel. | PSK | (AB) |
| P03 | 12-3 | 1950 | 7600  | Thu | Polish intel. | PSK | (AB) |
| P03 | 12-3 | 1955 | 7600  | Thu | Polish intel. | PSK | (AB) |
| P03 | 13-3 | 0530 | 4536  | Fri | Polish intel. | PSK | (AB) |
| P03 | 13-3 | 0535 | 4536  | Fri | Polish intel. | PSK | (AB) |
| P03 | 13-3 | 1100 | 7637  | Fri | Polish intel. | PSK | (AB) |
| P03 | 13-3 | 1105 | 7637  | Fri | Polish intel. | PSK | (AB) |
| P03 | 13-3 | 1515 | 17441 | Fri | Polish intel. | PSK | (AB) |
| P03 | 13-3 | 1520 | 17441 | Fri | Polish intel. | PSK | (AB) |
| P03 | 14-3 | 1020 | 6252  | Sat | Polish intel. | PSK | (AB) |
| P03 | 14-3 | 1025 | 6252  | Sat | Polish intel. | PSK | (AB) |
| P03 | 14-3 | 1245 | 5082  | Sat | Polish intel. | PSK | (AB) |
| P03 | 14-3 | 1250 | 5082  | Sat | Polish intel. | PSK | (AB) |
| P03 | 14-3 | 1310 | 9963  | Sat | Polish intel. | PSK | (AB) |
| P03 | 14-3 | 1315 | 9963  | Sat | Polish intel. | PSK | (AB) |
| P03 | 15-3 | 0530 | 4536  | Sun | Polish intel. | PSK | (AB) |
| P03 | 15-3 | 0535 | 4536  | Sun | Polish intel. | PSK | (AB) |
| P03 | 15-3 | 1020 | 6252  | Sun | Polish intel. | PSK | (AB) |
| P03 | 15-3 | 1025 | 6252  | Sun | Polish intel. | PSK | (AB) |



|     |      |      |       |     |               |     |      |
|-----|------|------|-------|-----|---------------|-----|------|
| P03 | 15-3 | 1100 | 7637  | Sun | Polish intel. | PSK | (AB) |
| P03 | 15-3 | 1105 | 7637  | Sun | Polish intel. | PSK | (AB) |
| P03 | 15-3 | 1220 | 22992 | Sun | Polish intel. | PSK | (AB) |
| P03 | 15-3 | 1225 | 22992 | Sun | Polish intel. | PSK | (AB) |
| P03 | 15-3 | 1245 | 5082  | Sun | Polish intel. | PSK | (AB) |
| P03 | 15-3 | 1250 | 5082  | Sun | Polish intel. | PSK | (AB) |
| P03 | 15-3 | 1515 | 17441 | Sun | Polish intel. | PSK | (AB) |
| P03 | 15-3 | 1520 | 17441 | Sun | Polish intel. | PSK | (AB) |
| P03 | 15-3 | 1725 | 12385 | Sun | Polish intel. | PSK | (AB) |
| P03 | 15-3 | 1730 | 12385 | Sun | Polish intel. | PSK | (AB) |
| P03 | 15-3 | 1950 | 7600  | Sun | Polish intel. | PSK | (AB) |
| P03 | 15-3 | 1955 | 7600  | Sun | Polish intel. | PSK | (AB) |
| P03 | 16-3 | 1220 | 22992 | Mon | Polish intel. | PSK | (AB) |
| P03 | 16-3 | 1225 | 22992 | Mon | Polish intel. | PSK | (AB) |
| P03 | 17-3 | 1725 | 12385 | Tue | Polish intel. | PSK | (AB) |
| P03 | 17-3 | 1730 | 12385 | Tue | Polish intel. | PSK | (AB) |
| P03 | 18-3 | 1310 | 9963  | Wed | Polish intel. | PSK | (AB) |
| P03 | 18-3 | 1315 | 9963  | Wed | Polish intel. | PSK | (AB) |
| P03 | 19-3 | 1950 | 7600  | Thu | Polish intel. | PSK | (AB) |
| P03 | 19-3 | 1955 | 7600  | Thu | Polish intel. | PSK | (AB) |
| P03 | 20-3 | 0530 | 4536  | Fri | Polish intel. | PSK | (AB) |
| P03 | 20-3 | 0535 | 4536  | Fri | Polish intel. | PSK | (AB) |
| P03 | 20-3 | 1100 | 7637  | Fri | Polish intel. | PSK | (AB) |
| P03 | 20-3 | 1105 | 7637  | Fri | Polish intel. | PSK | (AB) |
| P03 | 20-3 | 1515 | 17441 | Fri | Polish intel. | PSK | (AB) |
| P03 | 20-3 | 1520 | 17441 | Fri | Polish intel. | PSK | (AB) |
| P03 | 21-3 | 1020 | 6252  | Sat | Polish intel. | PSK | (AB) |
| P03 | 21-3 | 1025 | 6252  | Sat | Polish intel. | PSK | (AB) |
| P03 | 21-3 | 1245 | 5082  | Sat | Polish intel. | PSK | (AB) |
| P03 | 21-3 | 1250 | 5082  | Sat | Polish intel. | PSK | (AB) |
| P03 | 21-3 | 1310 | 9963  | Sat | Polish intel. | PSK | (AB) |
| P03 | 21-3 | 1315 | 9963  | Sat | Polish intel. | PSK | (AB) |
| P03 | 22-3 | 0530 | 4536  | Sun | Polish intel. | PSK | (AB) |
| P03 | 22-3 | 0535 | 4536  | Sun | Polish intel. | PSK | (AB) |
| P03 | 22-3 | 1020 | 6252  | Sun | Polish intel. | PSK | (AB) |
| P03 | 22-3 | 1025 | 6252  | Sun | Polish intel. | PSK | (AB) |
| P03 | 22-3 | 1100 | 7637  | Sun | Polish intel. | PSK | (AB) |
| P03 | 22-3 | 1105 | 7637  | Sun | Polish intel. | PSK | (AB) |
| P03 | 22-3 | 1220 | 22992 | Sun | Polish intel. | PSK | (AB) |
| P03 | 22-3 | 1225 | 22992 | Sun | Polish intel. | PSK | (AB) |
| P03 | 22-3 | 1245 | 5082  | Sun | Polish intel. | PSK | (AB) |
| P03 | 22-3 | 1250 | 5082  | Sun | Polish intel. | PSK | (AB) |
| P03 | 22-3 | 1515 | 17441 | Sun | Polish intel. | PSK | (AB) |
| P03 | 22-3 | 1520 | 17441 | Sun | Polish intel. | PSK | (AB) |
| P03 | 22-3 | 1725 | 12385 | Sun | Polish intel. | PSK | (AB) |
| P03 | 22-3 | 1730 | 12385 | Sun | Polish intel. | PSK | (AB) |
| P03 | 22-3 | 1950 | 7600  | Sun | Polish intel. | PSK | (AB) |

|      |      |      |       |     |               |                 |          |
|------|------|------|-------|-----|---------------|-----------------|----------|
| P03  | 22-3 | 1955 | 7600  | Sun | Polish intel. | PSK             | (AB)     |
| P03  | 23-3 | 1220 | 22992 | Mon | Polish intel. | PSK             | (AB-POL) |
| P03  | 23-3 | 1225 | 22992 | Mon | Polish intel. | PSK             | (AB-POL) |
| P03  | 24-3 | 1725 | 12385 | Tue | Polish intel. | PSK             | (AB)     |
| P03  | 24-3 | 1730 | 12385 | Tue | Polish intel. | PSK             | (AB)     |
| P03  | 25-3 | 1310 | 9963  | Wed | Polish intel. | PSK             | (AB)     |
| P03  | 25-3 | 1315 | 9963  | Wed | Polish intel. | PSK             | (AB)     |
| P03  | 26-3 | 1950 | 7600  | Thu | Polish intel. | PSK             | (AB)     |
| P03  | 26-3 | 1955 | 7600  | Thu | Polish intel. | PSK             | (AB)     |
| P03  | 27-3 | 0530 | 4536  | Fri | Polish intel. | PSK             | (AB)     |
| P03  | 27-3 | 0535 | 4536  | Fri | Polish intel. | PSK             | (AB)     |
| P03  | 27-3 | 1100 | 7637  | Fri | Polish intel. | PSK             | (AB)     |
| P03  | 27-3 | 1105 | 7637  | Fri | Polish intel. | PSK             | (AB)     |
| P03  | 27-3 | 1515 | 17441 | Fri | Polish intel. | PSK             | (AB)     |
| P03  | 27-3 | 1520 | 17441 | Fri | Polish intel. | PSK             | (AB)     |
| P03  | 28-3 | 1020 | 6252  | Sat | Polish intel. | PSK             | (AB)     |
| P03  | 28-3 | 1025 | 6252  | Sat | Polish intel. | PSK             | (AB)     |
| P03  | 28-3 | 1245 | 5082  | Sat | Polish intel. | PSK             | (AB)     |
| P03  | 28-3 | 1250 | 5082  | Sat | Polish intel. | PSK             | (AB)     |
| P03  | 28-3 | 1310 | 9963  | Sat | Polish intel. | PSK             | (AB)     |
| P03  | 28-3 | 1315 | 9963  | Sat | Polish intel. | PSK             | (AB)     |
| P03  | 29-3 | 0530 | 4536  | Sun | Polish intel. | PSK             | (AB)     |
| P03  | 29-3 | 0535 | 4536  | Sun | Polish intel. | PSK             | (AB)     |
| P03  | 29-3 | 1020 | 6252  | Sun | Polish intel. | PSK             | (AB)     |
| P03  | 29-3 | 1025 | 6252  | Sun | Polish intel. | PSK             | (AB)     |
| P03  | 29-3 | 1100 | 7637  | Sun | Polish intel. | PSK             | (AB)     |
| P03  | 29-3 | 1105 | 7637  | Sun | Polish intel. | PSK             | (AB)     |
| P03  | 29-3 | 1220 | 22992 | Sun | Polish intel. | PSK             | (AB)     |
| P03  | 29-3 | 1225 | 22992 | Sun | Polish intel. | PSK             | (AB)     |
| P03  | 29-3 | 1245 | 5082  | Sun | Polish intel. | PSK             | (AB)     |
| P03  | 29-3 | 1250 | 5082  | Sun | Polish intel. | PSK             | (AB)     |
| P03  | 29-3 | 1515 | 17441 | Sun | Polish intel. | PSK             | (AB)     |
| P03  | 29-3 | 1520 | 17441 | Sun | Polish intel. | PSK             | (AB)     |
| P03  | 29-3 | 1725 | 12385 | Sun | Polish intel. | PSK             | (AB)     |
| P03  | 29-3 | 1730 | 12385 | Sun | Polish intel. | PSK             | (AB)     |
| P03  | 29-3 | 1950 | 7600  | Sun | Polish intel. | PSK             | (AB)     |
| P03  | 29-3 | 1955 | 7600  | Sun | Polish intel. | PSK             | (AB)     |
| P03  | 30-3 | 1220 | 22992 | Mon | Polish intel. | PSK             | (AB-POL) |
| P03  | 30-3 | 1225 | 22992 | Mon | Polish intel. | PSK             | (AB-POL) |
| P03  | 31-3 | 1725 | 12385 | Tue | Polish intel. | PSK             | (AB)     |
| P03  | 31-3 | 1730 | 12385 | Tue | Polish intel. | PSK             | (AB)     |
| P03g | 3-3  | 1800 | 7840  | Tue | Polish intel. | BPSK 50Bd/464bp | (AB)     |
| P03g | 3-3  | 1805 | 7840  | Tue | Polish intel. | BPSK 50Bd/464bp | (AB)     |
| P03g | 5-3  | 1800 | 7840  | Thu | Polish intel. | BPSK 50Bd/464bp | (AB)     |
| P03g | 5-3  | 1805 | 7840  | Thu | Polish intel. | BPSK 50Bd/464bp | (AB)     |
| P03g | 10-3 | 1800 | 7840  | Tue | Polish intel. | BPSK 50Bd/464bp | (AB)     |
| P03g | 10-3 | 1805 | 7840  | Tue | Polish intel. | BPSK 50Bd/464bp | (AB)     |

|      |      |      |       |     |               |                  |      |
|------|------|------|-------|-----|---------------|------------------|------|
| P03g | 12-3 | 1800 | 7840  | Thu | Polish intel. | BPSK 50Bd/464bp  | (AB) |
| P03g | 12-3 | 1805 | 7840  | Thu | Polish intel. | BPSK 50Bd/464bp  | (AB) |
| P03g | 17-3 | 1800 | 7840  | Tue | Polish intel. | BPSK 50Bd/464bp  | (AB) |
| P03g | 17-3 | 1805 | 7840  | Tue | Polish intel. | BPSK 50Bd/464bp  | (AB) |
| P03g | 19-3 | 1800 | 7840  | Thu | Polish intel. | BPSK 50Bd/464bp  | (AB) |
| P03g | 19-3 | 1805 | 7840  | Thu | Polish intel. | BPSK 50Bd/464bp  | (AB) |
| P03g | 24-3 | 1800 | 7840  | Tue | Polish intel. | BPSK 50Bd/464bp  | (AB) |
| P03g | 24-3 | 1805 | 7840  | Tue | Polish intel. | BPSK 50Bd/464bp  | (AB) |
| P03g | 26-3 | 1800 | 7840  | Thu | Polish intel. | BPSK 50Bd/464bp  | (AB) |
| P03g | 26-3 | 1805 | 7840  | Thu | Polish intel. | BPSK 50Bd/464bp  | (AB) |
| P03g | 31-3 | 1800 | 7840  | Tue | Polish intel. | BPSK 50Bd/464bp  | (AB) |
| P03g | 31-3 | 1805 | 7840  | Tue | Polish intel. | BPSK 50Bd/464bp  | (AB) |
| P03i | 3-3  | 0430 | 10210 | Tue | Polish intel. | BPSK 100Bd/512bp | (AB) |
| P03i | 3-3  | 0435 | 10210 | Tue | Polish intel. | BPSK 100Bd/512bp | (AB) |
| P03i | 3-3  | 1100 | 10298 | Tue | Polish intel. | BPSK 100Bd/512bp | (AB) |
| P03i | 3-3  | 1105 | 10298 | Tue | Polish intel. | BPSK 100Bd/512bp | (AB) |
| P03i | 4-3  | 1100 | 10298 | Wed | Polish intel. | BPSK 100Bd/512bp | (AB) |
| P03i | 4-3  | 1105 | 10298 | Wed | Polish intel. | BPSK 100Bd/512bp | (AB) |
| P03i | 10-3 | 1100 | 10298 | Tue | Polish intel. | BPSK 100Bd/512bp | (AB) |
| P03i | 10-3 | 1105 | 10298 | Tue | Polish intel. | BPSK 100Bd/512bp | (AB) |
| P03i | 11-3 | 1100 | 10298 | Wed | Polish intel. | BPSK 100Bd/512bp | (AB) |
| P03i | 11-3 | 1105 | 10298 | Wed | Polish intel. | BPSK 100Bd/512bp | (AB) |
| P03i | 17-3 | 1100 | 10298 | Tue | Polish intel. | BPSK 100Bd/512bp | (AB) |
| P03i | 17-3 | 1105 | 10298 | Tue | Polish intel. | BPSK 100Bd/512bp | (AB) |
| P03i | 18-3 | 1100 | 10298 | Wed | Polish intel. | BPSK 100Bd/512bp | (AB) |
| P03i | 18-3 | 1105 | 10298 | Wed | Polish intel. | BPSK 100Bd/512bp | (AB) |
| P03i | 24-3 | 1100 | 10298 | Tue | Polish intel. | BPSK 100Bd/512bp | (AB) |
| P03i | 24-3 | 1105 | 10298 | Tue | Polish intel. | BPSK 100Bd/512bp | (AB) |
| P03i | 25-3 | 1100 | 10298 | Wed | Polish intel. | BPSK 100Bd/512bp | (AB) |
| P03i | 25-3 | 1105 | 10298 | Wed | Polish intel. | BPSK 100Bd/512bp | (AB) |
| P03i | 26-3 | 0430 | 10210 | Thu | Polish intel. | BPSK 100Bd/512bp | (AB) |
| P03i | 26-3 | 0435 | 10210 | Thu | Polish intel. | BPSK 100Bd/512bp | (AB) |
| P03i | 31-3 | 1100 | 10298 | Tue | Polish intel. | BPSK 100Bd/512bp | (AB) |
| P03i | 31-3 | 1105 | 10298 | Tue | Polish intel. | BPSK 100Bd/512bp | (AB) |
| P03k | 1-3  | 0630 | 9052  | Sun | Polish intel. | BPSK 100Bd/480bp | (AB) |
| P03k | 1-3  | 0635 | 9052  | Sun | Polish intel. | BPSK 100Bd/480bp | (AB) |
| P03k | 3-3  | 1230 | 18811 | Tue | Polish intel. | BPSK 100Bd/480bp | (AB) |
| P03k | 3-3  | 1235 | 18811 | Tue | Polish intel. | BPSK 100Bd/480bp | (AB) |
| P03k | 4-3  | 1730 | 6767  | Wed | Polish intel. | BPSK 100Bd/480bp | (AB) |
| P03k | 4-3  | 1735 | 6767  | Wed | Polish intel. | BPSK 100Bd/480bp | (AB) |
| P03k | 7-3  | 0630 | 9052  | Sat | Polish intel. | BPSK 100Bd/480bp | (AB) |
| P03k | 7-3  | 0635 | 9052  | Sat | Polish intel. | BPSK 100Bd/480bp | (AB) |
| P03k | 7-3  | 1230 | 18811 | Sat | Polish intel. | BPSK 100Bd/480bp | (AB) |
| P03k | 7-3  | 1235 | 18811 | Sat | Polish intel. | BPSK 100Bd/480bp | (AB) |
| P03k | 7-3  | 1730 | 6767  | Sat | Polish intel. | BPSK 100Bd/480bp | (AB) |
| P03k | 7-3  | 1735 | 6767  | Sat | Polish intel. | BPSK 100Bd/480bp | (AB) |
| P03k | 8-3  | 0630 | 9052  | Sun | Polish intel. | BPSK 100Bd/480bp | (AB) |

|      |      |      |       |     |               |                  |      |
|------|------|------|-------|-----|---------------|------------------|------|
| P03k | 8-3  | 0635 | 9052  | Sun | Polish intel. | BPSK 100Bd/480bp | (AB) |
| P03k | 10-3 | 1230 | 18811 | Tue | Polish intel. | BPSK 100Bd/480bp | (AB) |
| P03k | 10-3 | 1235 | 18811 | Tue | Polish intel. | BPSK 100Bd/480bp | (AB) |
| P03k | 11-3 | 1730 | 6767  | Wed | Polish intel. | BPSK 100Bd/480bp | (AB) |
| P03k | 11-3 | 1735 | 6767  | Wed | Polish intel. | BPSK 100Bd/480bp | (AB) |
| P03k | 14-3 | 0630 | 9052  | Sat | Polish intel. | BPSK 100Bd/480bp | (AB) |
| P03k | 14-3 | 0635 | 9052  | Sat | Polish intel. | BPSK 100Bd/480bp | (AB) |
| P03k | 14-3 | 1230 | 18811 | Sat | Polish intel. | BPSK 100Bd/480bp | (AB) |
| P03k | 14-3 | 1235 | 18811 | Sat | Polish intel. | BPSK 100Bd/480bp | (AB) |
| P03k | 14-3 | 1730 | 6767  | Sat | Polish intel. | BPSK 100Bd/480bp | (AB) |
| P03k | 14-3 | 1735 | 6767  | Sat | Polish intel. | BPSK 100Bd/480bp | (AB) |
| P03k | 15-3 | 0630 | 9052  | Sun | Polish intel. | BPSK 100Bd/480bp | (AB) |
| P03k | 15-3 | 0635 | 9052  | Sun | Polish intel. | BPSK 100Bd/480bp | (AB) |
| P03k | 17-3 | 1230 | 18811 | Tue | Polish intel. | BPSK 100Bd/480bp | (AB) |
| P03k | 17-3 | 1235 | 18811 | Tue | Polish intel. | BPSK 100Bd/480bp | (AB) |
| P03k | 18-3 | 1730 | 6767  | Wed | Polish intel. | BPSK 100Bd/480bp | (AB) |
| P03k | 18-3 | 1735 | 6767  | Wed | Polish intel. | BPSK 100Bd/480bp | (AB) |
| P03k | 21-3 | 0630 | 9052  | Sat | Polish intel. | BPSK 100Bd/480bp | (AB) |
| P03k | 21-3 | 0635 | 9052  | Sat | Polish intel. | BPSK 100Bd/480bp | (AB) |
| P03k | 21-3 | 1230 | 18811 | Sat | Polish intel. | BPSK 100Bd/480bp | (AB) |
| P03k | 21-3 | 1235 | 18811 | Sat | Polish intel. | BPSK 100Bd/480bp | (AB) |
| P03k | 21-3 | 1730 | 6767  | Sat | Polish intel. | BPSK 100Bd/480bp | (AB) |
| P03k | 21-3 | 1735 | 6767  | Sat | Polish intel. | BPSK 100Bd/480bp | (AB) |
| P03k | 22-3 | 0630 | 9052  | Sun | Polish intel. | BPSK 100Bd/480bp | (AB) |
| P03k | 22-3 | 0635 | 9052  | Sun | Polish intel. | BPSK 100Bd/480bp | (AB) |
| P03k | 24-3 | 1230 | 18811 | Tue | Polish intel. | BPSK 100Bd/480bp | (AB) |
| P03k | 24-3 | 1235 | 18811 | Tue | Polish intel. | BPSK 100Bd/480bp | (AB) |
| P03k | 25-3 | 1730 | 6767  | Wed | Polish intel. | BPSK 100Bd/480bp | (AB) |
| P03k | 25-3 | 1735 | 6767  | Wed | Polish intel. | BPSK 100Bd/480bp | (AB) |
| P03k | 28-3 | 0630 | 9052  | Sat | Polish intel. | BPSK 100Bd/480bp | (AB) |
| P03k | 28-3 | 0635 | 9052  | Sat | Polish intel. | BPSK 100Bd/480bp | (AB) |
| P03k | 28-3 | 1230 | 18811 | Sat | Polish intel. | BPSK 100Bd/480bp | (AB) |
| P03k | 28-3 | 1235 | 18811 | Sat | Polish intel. | BPSK 100Bd/480bp | (AB) |
| P03k | 28-3 | 1730 | 6767  | Sat | Polish intel. | BPSK 100Bd/480bp | (AB) |
| P03k | 28-3 | 1735 | 6767  | Sat | Polish intel. | BPSK 100Bd/480bp | (AB) |
| P03k | 29-3 | 0630 | 9052  | Sun | Polish intel. | BPSK 100Bd/480bp | (AB) |
| P03k | 29-3 | 0635 | 9052  | Sun | Polish intel. | BPSK 100Bd/480bp | (AB) |
| P03k | 31-3 | 1230 | 18811 | Tue | Polish intel. | BPSK 100Bd/480bp | (AB) |
| P03k | 31-3 | 1235 | 18811 | Tue | Polish intel. | BPSK 100Bd/480bp | (AB) |
| P03l | 2-3  | 1200 | 9052  | Mon | Polish intel. | QPSK 100Bd/464bp | (AB) |
| P03l | 2-3  | 1205 | 9052  | Mon | Polish intel. | QPSK 100Bd/464bp | (AB) |
| P03l | 4-3  | 1345 | 13470 | Wed | Polish intel. | QPSK 100Bd/464bp | (AB) |
| P03l | 4-3  | 1350 | 13470 | Wed | Polish intel. | QPSK 100Bd/464bp | (AB) |
| P03l | 5-3  | 1200 | 9052  | Thu | Polish intel. | QPSK 100Bd/464bp | (AB) |
| P03l | 5-3  | 1205 | 9052  | Thu | Polish intel. | QPSK 100Bd/464bp | (AB) |
| P03l | 6-3  | 1345 | 13470 | Fri | Polish intel. | QPSK 100Bd/464bp | (AB) |
| P03l | 6-3  | 1350 | 13470 | Fri | Polish intel. | QPSK 100Bd/464bp | (AB) |

|      |      |      |       |     |                |                                |      |
|------|------|------|-------|-----|----------------|--------------------------------|------|
| P03I | 9-3  | 1200 | 9052  | Mon | Polish intel.  | QPSK 100Bd/464bp               | (AB) |
| P03I | 9-3  | 1205 | 9052  | Mon | Polish intel.  | QPSK 100Bd/464bp               | (AB) |
| P03I | 11-3 | 1345 | 13470 | Wed | Polish intel.  | QPSK 100Bd/464bp               | (AB) |
| P03I | 11-3 | 1350 | 13470 | Wed | Polish intel.  | QPSK 100Bd/464bp               | (AB) |
| P03I | 12-3 | 1200 | 9052  | Thu | Polish intel.  | QPSK 100Bd/464bp               | (AB) |
| P03I | 12-3 | 1205 | 9052  | Thu | Polish intel.  | QPSK 100Bd/464bp               | (AB) |
| P03I | 13-3 | 1345 | 13470 | Fri | Polish intel.  | QPSK 100Bd/464bp               | (AB) |
| P03I | 13-3 | 1350 | 13470 | Fri | Polish intel.  | QPSK 100Bd/464bp               | (AB) |
| P03I | 16-3 | 1200 | 9052  | Mon | Polish intel.  | QPSK 100Bd/464bp               | (AB) |
| P03I | 16-3 | 1205 | 9052  | Mon | Polish intel.  | QPSK 100Bd/464bp               | (AB) |
| P03I | 18-3 | 1345 | 13470 | Wed | Polish intel.  | QPSK 100Bd/464bp               | (AB) |
| P03I | 18-3 | 1350 | 13470 | Wed | Polish intel.  | QPSK 100Bd/464bp               | (AB) |
| P03I | 19-3 | 1200 | 9052  | Thu | Polish intel.  | QPSK 100Bd/464bp               | (AB) |
| P03I | 19-3 | 1200 | 9052  | Thu | Polish intel.  | QPSK 100Bd/464bp               | (AB) |
| P03I | 19-3 | 1205 | 9052  | Thu | Polish intel.  | QPSK 100Bd/464bp               | (AB) |
| P03I | 19-3 | 1205 | 9052  | Thu | Polish intel.  | QPSK 100Bd/464bp               | (AB) |
| P03I | 20-3 | 1345 | 13470 | Fri | Polish intel.  | QPSK 100Bd/464bp               | (AB) |
| P03I | 20-3 | 1350 | 13470 | Fri | Polish intel.  | QPSK 100Bd/464bp               | (AB) |
| P03I | 23-3 | 1200 | 9052  | Mon | Polish intel.  | QPSK 100Bd/464bp               | (AB) |
| P03I | 23-3 | 1205 | 9052  | Mon | Polish intel.  | QPSK 100Bd/464bp               | (AB) |
| P03I | 25-3 | 1345 | 13470 | Wed | Polish intel.  | QPSK 100Bd/464bp               | (AB) |
| P03I | 25-3 | 1350 | 13470 | Wed | Polish intel.  | QPSK 100Bd/464bp               | (AB) |
| P03I | 27-3 | 1345 | 13470 | Fri | Polish intel.  | QPSK 100Bd/464bp               | (AB) |
| P03I | 27-3 | 1350 | 13470 | Fri | Polish intel.  | QPSK 100Bd/464bp               | (AB) |
| P03I | 30-3 | 1200 | 9052  | Mon | Polish intel.  | QPSK 100Bd/464bp               | (AB) |
| P03I | 30-3 | 1205 | 9052  | Mon | Polish intel.  | QPSK 100Bd/464bp               | (AB) |
| P07  | 1-3  | 1500 | 10328 | Sun | Russian intel. | 8xQSPK/62.5Bd/125Hz+250Bd BPSK | (AB) |
| P07  | 1-3  | 1510 | 9388  | Sun | Russian intel. | 8xQSPK/62.5Bd/125Hz+250Bd BPSK | (AB) |
| P07  | 1-3  | 1520 | 9062  | Sun | Russian intel. | 8xQSPK/62.5Bd/125Hz+250Bd BPSK | (AB) |
| P07  | 1-3  | 1530 | 8134  | Sun | Russian intel. | 8xQSPK/62.5Bd/125Hz+250Bd BPSK | (AB) |
| P07  | 1-3  | 1540 | 7886  | Sun | Russian intel. | 8xQSPK/62.5Bd/125Hz+250Bd BPSK | (AB) |
| P07  | 1-3  | 1550 | 7462  | Sun | Russian intel. | 8xQSPK/62.5Bd/125Hz+250Bd BPSK | (AB) |
| P07  | 4-3  | 1500 | 10328 | Wed | Russian intel. | 8xQSPK/62.5Bd/125Hz+250Bd BPSK | (AB) |
| P07  | 4-3  | 1510 | 9388  | Wed | Russian intel. | 8xQSPK/62.5Bd/125Hz+250Bd BPSK | (AB) |
| P07  | 4-3  | 1520 | 9062  | Wed | Russian intel. | 8xQSPK/62.5Bd/125Hz+250Bd BPSK | (AB) |
| P07  | 4-3  | 1530 | 8134  | Wed | Russian intel. | 8xQSPK/62.5Bd/125Hz+250Bd BPSK | (AB) |
| P07  | 4-3  | 1540 | 7886  | Wed | Russian intel. | 8xQSPK/62.5Bd/125Hz+250Bd BPSK | (AB) |
| P07  | 4-3  | 1550 | 7462  | Wed | Russian intel. | 8xQSPK/62.5Bd/125Hz+250Bd BPSK | (AB) |
| P07  | 8-3  | 1500 | 10328 | Sun | Russian intel. | 8xQSPK/62.5Bd/125Hz+250Bd BPSK | (AB) |
| P07  | 8-3  | 1510 | 9388  | Sun | Russian intel. | 8xQSPK/62.5Bd/125Hz+250Bd BPSK | (AB) |
| P07  | 8-3  | 1520 | 9062  | Sun | Russian intel. | 8xQSPK/62.5Bd/125Hz+250Bd BPSK | (AB) |
| P07  | 8-3  | 1530 | 8134  | Sun | Russian intel. | 8xQSPK/62.5Bd/125Hz+250Bd BPSK | (AB) |
| P07  | 8-3  | 1540 | 7886  | Sun | Russian intel. | 8xQSPK/62.5Bd/125Hz+250Bd BPSK | (AB) |
| P07  | 8-3  | 1550 | 7462  | Sun | Russian intel. | 8xQSPK/62.5Bd/125Hz+250Bd BPSK | (AB) |
| P07  | 11-3 | 1500 | 10328 | Wed | Russian intel. | 8xQSPK/62.5Bd/125Hz+250Bd BPSK | (AB) |
| P07  | 11-3 | 1510 | 9388  | Wed | Russian intel. | 8xQSPK/62.5Bd/125Hz+250Bd BPSK | (AB) |
| P07  | 11-3 | 1520 | 9062  | Wed | Russian intel. | 8xQSPK/62.5Bd/125Hz+250Bd BPSK | (AB) |

|     |      |      |         |     |                                                                      |                                |       |
|-----|------|------|---------|-----|----------------------------------------------------------------------|--------------------------------|-------|
| P07 | 11-3 | 1530 | 8134    | Wed | Russian intel.                                                       | 8xQSPK/62.5Bd/125Hz+250Bd BPSK | (AB)  |
| P07 | 11-3 | 1540 | 7886    | Wed | Russian intel.                                                       | 8xQSPK/62.5Bd/125Hz+250Bd BPSK | (AB)  |
| P07 | 11-3 | 1550 | 7462    | Wed | Russian intel.                                                       | 8xQSPK/62.5Bd/125Hz+250Bd BPSK | (AB)  |
| P07 | 15-3 | 1500 | 10328   | Sun | Russian intel.                                                       | 8xQSPK/62.5Bd/125Hz+250Bd BPSK | (AB)  |
| P07 | 15-3 | 1510 | 9388    | Sun | Russian intel.                                                       | 8xQSPK/62.5Bd/125Hz+250Bd BPSK | (AB)  |
| P07 | 15-3 | 1520 | 9062    | Sun | Russian intel.                                                       | 8xQSPK/62.5Bd/125Hz+250Bd BPSK | (AB)  |
| P07 | 15-3 | 1530 | 8134    | Sun | Russian intel.                                                       | 8xQSPK/62.5Bd/125Hz+250Bd BPSK | (AB)  |
| P07 | 15-3 | 1540 | 7886    | Sun | Russian intel.                                                       | 8xQSPK/62.5Bd/125Hz+250Bd BPSK | (AB)  |
| P07 | 15-3 | 1550 | 7462    | Sun | Russian intel.                                                       | 8xQSPK/62.5Bd/125Hz+250Bd BPSK | (AB)  |
| P07 | 18-3 | 1500 | 10328   | Wed | Russian intel.                                                       | 8xQSPK/62.5Bd/125Hz+250Bd BPSK | (AB)  |
| P07 | 18-3 | 1510 | 9388    | Wed | Russian intel.                                                       | 8xQSPK/62.5Bd/125Hz+250Bd BPSK | (AB)  |
| P07 | 18-3 | 1520 | 9062    | Wed | Russian intel.                                                       | 8xQSPK/62.5Bd/125Hz+250Bd BPSK | (AB)  |
| P07 | 18-3 | 1530 | 8134    | Wed | Russian intel.                                                       | 8xQSPK/62.5Bd/125Hz+250Bd BPSK | (AB)  |
| P07 | 18-3 | 1540 | 7886    | Wed | Russian intel.                                                       | 8xQSPK/62.5Bd/125Hz+250Bd BPSK | (AB)  |
| P07 | 18-3 | 1550 | 7462    | Wed | Russian intel.                                                       | 8xQSPK/62.5Bd/125Hz+250Bd BPSK | (AB)  |
| P07 | 22-3 | 1500 | 10328   | Sun | Russian intel.                                                       | 8xQSPK/62.5Bd/125Hz+250Bd BPSK | (AB)  |
| P07 | 22-3 | 1510 | 9388    | Sun | Russian intel.                                                       | 8xQSPK/62.5Bd/125Hz+250Bd BPSK | (AB)  |
| P07 | 22-3 | 1520 | 9062    | Sun | Russian intel.                                                       | 8xQSPK/62.5Bd/125Hz+250Bd BPSK | (AB)  |
| P07 | 22-3 | 1530 | 8134    | Sun | Russian intel.                                                       | 8xQSPK/62.5Bd/125Hz+250Bd BPSK | (AB)  |
| P07 | 22-3 | 1540 | 7886    | Sun | Russian intel.                                                       | 8xQSPK/62.5Bd/125Hz+250Bd BPSK | (AB)  |
| P07 | 22-3 | 1550 | 7462    | Sun | Russian intel.                                                       | 8xQSPK/62.5Bd/125Hz+250Bd BPSK | (AB)  |
| P07 | 25-3 | 1500 | 10328   | Wed | Russian intel.                                                       | 8xQSPK/62.5Bd/125Hz+250Bd BPSK | (AB)  |
| P07 | 25-3 | 1510 | 9388    | Wed | Russian intel.                                                       | 8xQSPK/62.5Bd/125Hz+250Bd BPSK | (AB)  |
| P07 | 25-3 | 1520 | 9062    | Wed | Russian intel.                                                       | 8xQSPK/62.5Bd/125Hz+250Bd BPSK | (AB)  |
| P07 | 25-3 | 1530 | 8134    | Wed | Russian intel.                                                       | 8xQSPK/62.5Bd/125Hz+250Bd BPSK | (AB)  |
| P07 | 25-3 | 1540 | 7886    | Wed | Russian intel.                                                       | 8xQSPK/62.5Bd/125Hz+250Bd BPSK | (AB)  |
| P07 | 25-3 | 1550 | 7462    | Wed | Russian intel.                                                       | 8xQSPK/62.5Bd/125Hz+250Bd BPSK | (AB)  |
| P07 | 29-3 | 1500 | 10328   | Sun | Russian intel.                                                       | 8xQSPK/62.5Bd/125Hz+250Bd BPSK | (AB)  |
| P07 | 29-3 | 1510 | 9388    | Sun | Russian intel.                                                       | 8xQSPK/62.5Bd/125Hz+250Bd BPSK | (AB)  |
| P07 | 29-3 | 1520 | 9062    | Sun | Russian intel.                                                       | 8xQSPK/62.5Bd/125Hz+250Bd BPSK | (AB)  |
| P07 | 29-3 | 1530 | 8134    | Sun | Russian intel.                                                       | 8xQSPK/62.5Bd/125Hz+250Bd BPSK | (AB)  |
| P07 | 29-3 | 1540 | 7886    | Sun | Russian intel.                                                       | 8xQSPK/62.5Bd/125Hz+250Bd BPSK | (AB)  |
| P07 | 29-3 | 1550 | 7462    | Sun | Russian intel.                                                       | 8xQSPK/62.5Bd/125Hz+250Bd BPSK | (AB)  |
| Q26 | 1-3  | 1141 | 4542    | Sun | Message //6876 kHz                                                   | 4+4 QPSK 75/1000 LSB           | (JPL) |
| Q26 | 1-3  | 1141 | 6876    | Sun | Message //4542 kHz                                                   | 4+4 QPSK 75/1000 LSB           | (JPL) |
| Q26 | 1-3  | 1147 | 4156    | Sun | Message //9042, 6352, 4156 kHz                                       | 4+4 QPSK 75/1000 LSB           | (JPL) |
| Q26 | 1-3  | 1147 | 6352    | Sun | Message //9042, 6352, 4156 kHz                                       | 4+4 QPSK 75/1000 LSB           | (JPL) |
| Q26 | 1-3  | 1147 | 9042    | Sun | Message //9042, 6352, 4156 kHz                                       | 4+4 QPSK 75/1000 LSB           | (JPL) |
| Q26 | 1-3  | 1300 | 5394.75 | Sun | Message                                                              | 4+4 QPSK 75/1000 LSB           | (JPL) |
| Q26 | 1-3  | 1300 | 8001.75 | Sun | Message                                                              | 4+4 QPSK 75/1000 LSB           | (JPL) |
| Q26 | 1-3  | 1700 | 5394.75 | Sun | Message                                                              | 4+4 QPSK 75/1000 LSB           | (JPL) |
| Q26 | 1-3  | 1700 | 8001.75 | Sun | Message                                                              | 4+4 QPSK 75/1000 LSB           | (JPL) |
| Q26 | 1-3  | 2100 | 5394.75 | Sun | F PRBM PRBC FFMM PRBM C FFM PRBM C F PRBM PRBCK (rptd) //8001.75 kHz | 4+4 QPSK 75/1000 LSB           | (JPL) |
| Q26 | 1-3  | 2100 | 8001.75 | Sun | F PRBM PRBC FFMM PRBM C FFM PRBM C F PRBM PRBCK (rptd) //5394.75 kHz | 4+4 QPSK 75/1000 LSB           | (JPL) |
| Q26 | 3-3  | 1100 | 5394.75 | Tue | Message                                                              | 4+4 QPSK 75/1000 LSB           | (JPL) |
| Q26 | 3-3  | 1131 | 4542    | Tue | Message //6876 kHz                                                   | 4+4 QPSK 75/1000 LSB           | (JPL) |
| Q26 | 3-3  | 1131 | 6876    | Tue | Message //4542 kHz                                                   | 4+4 QPSK 75/1000 LSB           | (JPL) |



|     |      |      |              |     |                                         |                          |       |
|-----|------|------|--------------|-----|-----------------------------------------|--------------------------|-------|
| Q26 | 3-3  | 1151 | 4156         | Tue | Message //9042, 6352, 4156 kHz          | 4+4 QPSK 75/1000 LSB     | (JPL) |
| Q26 | 3-3  | 1151 | 6352         | Tue | Message //9042, 6352, 4156 kHz          | 4+4 QPSK 75/1000 LSB     | (JPL) |
| Q26 | 3-3  | 1151 | 9042         | Tue | Message //9042, 6352, 4156 kHz          | 4+4 QPSK 75/1000 LSB     | (JPL) |
| Q26 | 3-3  | 1217 | 3181.75      | Tue | Message                                 | 4+4 QPSK 75/1000 LSB     | (JPL) |
| Q26 | 5-3  | 1136 | 4542         | Thu | Message //6876 kHz                      | 4+4 QPSK 75/1000 LSB     | (JPL) |
| Q26 | 5-3  | 1136 | 6876         | Thu | Message //4542 kHz                      | 4+4 QPSK 75/1000 LSB     | (JPL) |
| Q26 | 5-3  | 1300 | 5394.75      | Thu | Message                                 | 4+4 QPSK 75/1000 LSB     | (JPL) |
| Q26 | 5-3  | 1700 | 5394.75      | Thu | Message                                 | 4+4 QPSK 75/1000 LSB     | (JPL) |
| Q26 | 5-3  | 1700 | 8001.75      | Thu | Message                                 | 4+4 QPSK 75/1000 LSB     | (JPL) |
| Q26 | 6-3  | 1700 | 5394.75      | Fri | Message                                 | 4+4 QPSK 75/1000 LSB     | (JPL) |
| Q26 | 6-3  | 1700 | 8001.75      | Fri | Message                                 | 4+4 QPSK 75/1000 LSB     | (JPL) |
| Q26 | 7-3  | 1128 | 5710         | Sat | Message                                 | 4+4 QPSK 75/1000 LSB     | (JPL) |
| Q26 | 7-3  | 1130 | 4542         | Sat | Message //6876 kHz                      | 4+4 QPSK 75/1000 LSB     | (JPL) |
| Q26 | 7-3  | 1130 | 6876         | Sat | Message //4542 kHz                      | 4+4 QPSK 75/1000 LSB     | (JPL) |
| Q26 | 7-3  | 1300 | 5394.75      | Sat | Message                                 | 4+4 QPSK 75/1000 LSB     | (JPL) |
| Q26 | 7-3  | 1300 | 8001.75      | Sat | Message                                 | 4+4 QPSK 75/1000 LSB     | (JPL) |
| Q26 | 7-3  | 1700 | 8001.75      | Sat | Message                                 | 4+4 QPSK 75/1000 LSB     | (JPL) |
| Q26 | 8-3  | 0915 | 14525.3<br>4 | Sun | H9JU H9JU H9JU DE Z1Q7 Z1Q7 Z1Q7 (rptd) | Q26 4+4 QPSK 75/1000 LSB | (RHa) |
| Q26 | 8-3  | 1700 | 5394.75      | Sun | Message                                 | 4+4 QPSK 75/1000 LSB     | (JPL) |
| Q26 | 8-3  | 1700 | 8001.75      | Sun | Message                                 | 4+4 QPSK 75/1000 LSB     | (JPL) |
| Q26 | 10-3 | 1100 | 5394.75      | Tue | Message                                 | 4+4 QPSK 75/1000 LSB     | (JPL) |
| Q26 | 10-3 | 1100 | 8001.75      | Tue | Message                                 | 4+4 QPSK 75/1000 LSB     | (JPL) |
| Q26 | 10-3 | 1131 | 4542         | Tue | Message //6875 kHz                      | 4+4 QPSK 75/1000 LSB     | (JPL) |
| Q26 | 10-3 | 1131 | 6876         | Tue | Message //4542 kHz                      | 4+4 QPSK 75/1000 LSB     | (JPL) |
| Q26 | 10-3 | 1235 | 7856.75      | Tue | Message                                 | 4+4 QPSK 75/1000 LSB     | (JPL) |
| Q26 | 10-3 | 1300 | 5394.75      | Tue | Message                                 | 4+4 QPSK 75/1000 LSB     | (JPL) |
| Q26 | 10-3 | 1300 | 8001.75      | Tue | Message                                 | 4+4 QPSK 75/1000 LSB     | (JPL) |
| Q26 | 10-3 | 1500 | 5394.75      | Tue | Message                                 | 4+4 QPSK 75/1000 LSB     | (JPL) |
| Q26 | 10-3 | 1500 | 8001.75      | Tue | Message                                 | 4+4 QPSK 75/1000 LSB     | (JPL) |
| Q26 | 10-3 | 1700 | 5394.75      | Tue | Message                                 | 4+4 QPSK 75/1000 LSB     | (JPL) |
| Q26 | 10-3 | 1700 | 8001.75      | Tue | Message                                 | 4+4 QPSK 75/1000 LSB     | (JPL) |
| Q26 | 12-3 | 1100 | 5394.75      | Thu | Message                                 | 4+4 QPSK 75/1000 LSB     | (JPL) |
| Q26 | 12-3 | 1100 | 8001.75      | Thu | Message                                 | 4+4 QPSK 75/1000 LSB     | (JPL) |
| Q26 | 12-3 | 1113 | 4333.75      | Thu | Message                                 | 4+4 QPSK 75/1000 LSB     | (JPL) |
| Q26 | 12-3 | 1143 | 4156         | Thu | Message //9042, 6352, 4156 kHz          | 4+4 QPSK 75/1000 LSB     | (JPL) |
| Q26 | 12-3 | 1143 | 6352         | Thu | Message //9042, 6352, 4156 kHz          | 4+4 QPSK 75/1000 LSB     | (JPL) |
| Q26 | 12-3 | 1143 | 9042         | Thu | Message //9042, 6352, 4156 kHz          | 4+4 QPSK 75/1000 LSB     | (JPL) |
| Q26 | 12-3 | 1211 | 4338.3       | Thu | Message                                 | 4+4 QPSK 75/1000 LSB     | (JPL) |
| Q26 | 12-3 | 1700 | 5394.75      | Thu | Message                                 | 4+4 QPSK 75/1000 LSB     | (JPL) |
| Q26 | 12-3 | 1900 | 5394.75      | Thu | Message                                 | 4+4 QPSK 75/1000 LSB     | (JPL) |
| Q26 | 12-3 | 1900 | 8001.75      | Thu | Message                                 | 4+4 QPSK 75/1000 LSB     | (JPL) |
| Q26 | 13-3 | 1100 | 5394.75      | Fri | Message                                 | 4+4 QPSK 75/1000 LSB     | (JPL) |
| Q26 | 13-3 | 1100 | 8001.75      | Fri | Message                                 | 4+4 QPSK 75/1000 LSB     | (JPL) |
| Q26 | 13-3 | 1110 | 4333.75      | Fri | Message                                 | 4+4 QPSK 75/1000 LSB     | (JPL) |
| Q26 | 13-3 | 1143 | 4156         | Fri | Message //9042, 6352, 4156 kHz          | 4+4 QPSK 75/1000 LSB     | (JPL) |
| Q26 | 13-3 | 1143 | 6352         | Fri | Message //9042, 6352, 4156 kHz          | 4+4 QPSK 75/1000 LSB     | (JPL) |

|     |      |      |         |     |                                |                      |       |
|-----|------|------|---------|-----|--------------------------------|----------------------|-------|
| Q26 | 13-3 | 1143 | 9042    | Fri | Message //9042, 6352, 4156 kHz | 4+4 QPSK 75/1000 LSB | (JPL) |
| Q26 | 13-3 | 1500 | 5394.75 | Fri | Message                        | 4+4 QPSK 75/1000 LSB | (JPL) |
| Q26 | 13-3 | 1500 | 8001.75 | Fri | Message                        | 4+4 QPSK 75/1000 LSB | (JPL) |
| Q26 | 16-3 | 1700 | 5394.75 | Mon | Message                        | 4+4 QPSK 75/1000 LSB | (JPL) |
| Q26 | 16-3 | 1706 | 3503.75 | Mon | Message                        | 4+4 QPSK 75/1000 LSB | (JPL) |
| Q26 | 16-3 | 1900 | 8001.75 | Mon | Message                        | 4+4 QPSK 75/1000 LSB | (JPL) |
| Q26 | 17-3 | 1100 | 5394.75 | Tue | Message                        | 4+4 QPSK 75/1000 LSB | (JPL) |
| Q26 | 17-3 | 1100 | 8001.75 | Tue | Message                        | 4+4 QPSK 75/1000 LSB | (JPL) |
| Q26 | 17-3 | 1107 | 4333.75 | Tue | Message                        | 4+4 QPSK 75/1000 LSB | (JPL) |
| Q26 | 17-3 | 1130 | 4542    | Tue | Message //6876 kHz             | 4+4 QPSK 75/1000 LSB | (JPL) |
| Q26 | 17-3 | 1130 | 6876    | Tue | Message //4542 kHz             | 4+4 QPSK 75/1000 LSB | (JPL) |
| Q26 | 17-3 | 1145 | 4156    | Tue | Message //9042, 6352, 4156 kHz | 4+4 QPSK 75/1000 LSB | (JPL) |
| Q26 | 17-3 | 1145 | 6352    | Tue | Message //9042, 6352, 4156 kHz | 4+4 QPSK 75/1000 LSB | (JPL) |
| Q26 | 17-3 | 1145 | 9042    | Tue | Message //9042, 6352, 4156 kHz | 4+4 QPSK 75/1000 LSB | (JPL) |
| Q26 | 17-3 | 1300 | 5394.75 | Tue | Message                        | 4+4 QPSK 75/1000 LSB | (JPL) |
| Q26 | 17-3 | 1300 | 8001.75 | Tue | Message                        | 4+4 QPSK 75/1000 LSB | (JPL) |
| Q26 | 20-3 | 1023 | 8001.75 | Fri | Message                        | 4+4 QPSK 75/1000 LSB | (JPL) |
| Q26 | 20-3 | 1100 | 5394.75 | Fri | Message                        | 4+4 QPSK 75/1000 LSB | (JPL) |
| Q26 | 20-3 | 1104 | 4333.75 | Fri | Message                        | 4+4 QPSK 75/1000 LSB | (JPL) |
| Q26 | 20-3 | 1135 | 4542    | Fri | Message //6876 kHz             | 4+4 QPSK 75/1000 LSB | (JPL) |
| Q26 | 20-3 | 1135 | 6876    | Fri | Message //4542 kHz             | 4+4 QPSK 75/1000 LSB | (JPL) |
| Q26 | 20-3 | 1144 | 4156    | Fri | Message //9042, 6352, 4156 kHz | 4+4 QPSK 75/1000 LSB | (JPL) |
| Q26 | 20-3 | 1144 | 6352    | Fri | Message //9042, 6352, 4156 kHz | 4+4 QPSK 75/1000 LSB | (JPL) |
| Q26 | 20-3 | 1144 | 9042    | Fri | Message //9042, 6352, 4156 kHz | 4+4 QPSK 75/1000 LSB | (JPL) |
| Q26 | 22-3 | 1100 | 5394.75 | Sun | Message                        | 4+4 QPSK 75/1000 LSB | (JPL) |
| Q26 | 22-3 | 1100 | 8001.75 | Sun | Message                        | 4+4 QPSK 75/1000 LSB | (JPL) |
| Q26 | 22-3 | 1105 | 4333.75 | Sun | Message                        | 4+4 QPSK 75/1000 LSB | (JPL) |
| Q26 | 22-3 | 1130 | 4542    | Sun | Message //6876 kHz             | 4+4 QPSK 75/1000 LSB | (JPL) |
| Q26 | 22-3 | 1130 | 6876    | Sun | Message //4542 kHz             | 4+4 QPSK 75/1000 LSB | (JPL) |
| Q26 | 22-3 | 1145 | 4156    | Sun | Message //9042, 6352, 4156 kHz | 4+4 QPSK 75/1000 LSB | (JPL) |
| Q26 | 22-3 | 1145 | 6352    | Sun | Message //9042, 6352, 4156 kHz | 4+4 QPSK 75/1000 LSB | (JPL) |
| Q26 | 22-3 | 1145 | 9042    | Sun | Message //9042, 6352, 4156 kHz | 4+4 QPSK 75/1000 LSB | (JPL) |
| Q26 | 22-3 | 1700 | 5394.75 | Sun | Message                        | 4+4 QPSK 75/1000 LSB | (JPL) |
| Q26 | 22-3 | 1700 | 8001.75 | Sun | Message                        | 4+4 QPSK 75/1000 LSB | (JPL) |
| Q26 | 23-3 | 1100 | 5394.75 | Mon | Message                        | 4+4 QPSK 75/1000 LSB | (JPL) |
| Q26 | 23-3 | 1100 | 8001.75 | Mon | MessageN                       | 4+4 QPSK 75/1000 LSB | (JPL) |
| Q26 | 23-3 | 1106 | 4333.75 | Mon | Message                        | 4+4 QPSK 75/1000 LSB | (JPL) |
| Q26 | 23-3 | 1130 | 4542    | Mon | Message //6876 kHz             | 4+4 QPSK 75/1000 LSB | (JPL) |
| Q26 | 23-3 | 1130 | 6876    | Mon | Message //4542 kHz             | 4+4 QPSK 75/1000 LSB | (JPL) |
| Q26 | 23-3 | 1142 | 4156    | Mon | Message //9042, 6352, 4156 kHz | 4+4 QPSK 75/1000 LSB | (JPL) |
| Q26 | 23-3 | 1142 | 6352    | Mon | Message //9042, 6352, 4156 kHz | 4+4 QPSK 75/1000 LSB | (JPL) |
| Q26 | 23-3 | 1142 | 9042    | Mon | Message //9042, 6352, 4156 kHz | 4+4 QPSK 75/1000 LSB | (JPL) |
| Q26 | 23-3 | 1500 | 5394.75 | Mon | Message                        | 4+4 QPSK 75/1000 LSB | (JPL) |
| Q26 | 23-3 | 1500 | 8001.75 | Mon | Message                        | 4+4 QPSK 75/1000 LSB | (JPL) |
| Q26 | 23-3 | 1700 | 5394.75 | Mon | Message                        | 4+4 QPSK 75/1000 LSB | (JPL) |
| Q26 | 23-3 | 1700 | 8001.75 | Mon | Message                        | 4+4 QPSK 75/1000 LSB | (JPL) |
| Q26 | 23-3 | 1715 | 3506.75 | Mon | Message                        | 4+4 QPSK 75/1000 LSB | (JPL) |



|      |      |      |         |     |                                                                                                                                                                                                                                                                                      |                      |             |
|------|------|------|---------|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-------------|
| Q26  | 27-3 | 1100 | 5394.75 | Fri | Message                                                                                                                                                                                                                                                                              | 4+4 QPSK 75/1000 LSB | (JPL)       |
| Q26  | 27-3 | 1100 | 8001.75 | Fri | Message. At 1101, 8001.75 OTA, but 5394.75 continues. 8001.75 comes back up, but very weak.                                                                                                                                                                                          | 4+4 QPSK 75/1000 LSB | (JPL)       |
| Q26  | 27-3 | 1133 | 4542    | Fri | Message //6876 kHz                                                                                                                                                                                                                                                                   | 4+4 QPSK 75/1000 LSB | (JPL)       |
| Q26  | 27-3 | 1133 | 6876    | Fri | Message //4542 kHz                                                                                                                                                                                                                                                                   | 4+4 QPSK 75/1000 LSB | (JPL)       |
| Q26  | 27-3 | 1143 | 4156    | Fri | Message //9042, 6352, 4156 kHz                                                                                                                                                                                                                                                       | 4+4 QPSK 75/1000 LSB | (JPL)       |
| Q26  | 27-3 | 1143 | 6352    | Fri | Message //9042, 6352, 4156 kHz                                                                                                                                                                                                                                                       | 4+4 QPSK 75/1000 LSB | (JPL)       |
| Q26  | 27-3 | 1143 | 9042    | Fri | Message //9042, 6352, 4156 kHz                                                                                                                                                                                                                                                       | 4+4 QPSK 75/1000 LSB | (JPL)       |
| Q26  | 27-3 | 1300 | 5394.75 | Fri | Message                                                                                                                                                                                                                                                                              | 4+4 QPSK 75/1000 LSB | (JPL)       |
| Q26  | 27-3 | 1300 | 8001.75 | Fri | Message Note: At 1301, 8001.75 OTA, but 5394.75 continues. 8001.75 does come back up this time. Tech issue?                                                                                                                                                                          | 4+4 QPSK 75/1000 LSB | (JPL)       |
| Q26  | 27-3 | 1700 | 5394.75 | Fri | Message                                                                                                                                                                                                                                                                              | 4+4 QPSK 75/1000 LSB | (JPL)       |
| Q26  | 27-3 | 1700 | 8001.75 | Fri | Message Note: At 1700, 8001.75 is active, but only for few brief seconds. 5394.75 continues as per normal. Tech issue?                                                                                                                                                               | 4+4 QPSK 75/1000 LSB | (JPL)       |
| Q26  | 27-3 | 1900 | 5394.75 | Fri | Message                                                                                                                                                                                                                                                                              | 4+4 QPSK 75/1000 LSB | (JPL)       |
| Q26  | 27-3 | 1900 | 8001.75 | Fri | Message Note: At 1900, 5394.75 was a few seconds in tfc before 8001.75 went into tfc and OTA AT 1904z as usual. 5394.75 OTA at 1910z.                                                                                                                                                | 4+4 QPSK 75/1000 LSB | (JPL)       |
| Q26  | 28-3 | 1100 | 5394.75 | Sat | Message                                                                                                                                                                                                                                                                              | 4+4 QPSK 75/1000 LSB | (JPL)       |
| Q26  | 28-3 | 1100 | 8001.75 | Sat | Message                                                                                                                                                                                                                                                                              | 4+4 QPSK 75/1000 LSB | (JPL)       |
| Q26  | 28-3 | 1132 | 4542    | Sat | Message //6876 kHz                                                                                                                                                                                                                                                                   | 4+4 QPSK 75/1000 LSB | (JPL)       |
| Q26  | 28-3 | 1132 | 6876    | Sat | Message //4542 kHz                                                                                                                                                                                                                                                                   | 4+4 QPSK 75/1000 LSB | (JPL)       |
| Q26  | 28-3 | 1700 | 5394.75 | Sat | Message                                                                                                                                                                                                                                                                              | 4+4 QPSK 75/1000 LSB | (JPL)       |
| Q26  | 28-3 | 1700 | 8001.75 | Sat | Message                                                                                                                                                                                                                                                                              | 4+4 QPSK 75/1000 LSB | (JPL)       |
| Q26  | 30-3 | 1100 | 5394.75 | Mon | Message                                                                                                                                                                                                                                                                              | 4+4 QPSK 75/1000 LSB | (JPL)       |
| Q26  | 30-3 | 1133 | 4542    | Mon | Message //6876 kHz                                                                                                                                                                                                                                                                   | 4+4 QPSK 75/1000 LSB | (JPL)       |
| Q26  | 30-3 | 1133 | 6876    | Mon | Message //4542 kHz                                                                                                                                                                                                                                                                   | 4+4 QPSK 75/1000 LSB | (JPL)       |
| Q26  | 30-3 | 1144 | 4156    | Mon | Message //9042, 6352, 4156 kHz                                                                                                                                                                                                                                                       | 4+4 QPSK 75/1000 LSB | (JPL)       |
| Q26  | 30-3 | 1144 | 6352    | Mon | Message //9042, 6352, 4156 kHz                                                                                                                                                                                                                                                       | 4+4 QPSK 75/1000 LSB | (JPL)       |
| Q26  | 30-3 | 1144 | 9042    | Mon | Message //9042, 6352, 4156 kHz                                                                                                                                                                                                                                                       | 4+4 QPSK 75/1000 LSB | (JPL)       |
| Q26  | 30-3 | 1900 | 5394.75 | Mon | Message                                                                                                                                                                                                                                                                              | 4+4 QPSK 75/1000 LSB | (JPL)       |
| Q26  | 30-3 | 1900 | 8001.75 | Mon | Message                                                                                                                                                                                                                                                                              | 4+4 QPSK 75/1000 LSB | (JPL)       |
| RUS6 | 1-3  | 1223 | 10755   | Sun | Transmitter noise, tones, S06: 111, G06: 111, E06: 111, operator chat, tones, E06: 1, S06: 111, 1234 1234, 1234, 123 480 (R) 000 00000, electronic music fragment, many Windows sounds, music fragment, Windows sound, 49 80, 480 380, 480 (R), G06: 482 482 482 00 00000            | USB                  | (Lac/PY/AB) |
| RUS6 | 1-3  | 1247 | 10755   | Sun | G06: 480 (R) 47 00000 72796 39634 95732 ... 27500 00809 25991 00000, transmitter noises, 123, E06: 123, S06: 123                                                                                                                                                                     | USB                  | (Lac/PY/AB) |
| RUS6 | 1-3  | 1501 | 10755   | Sun | G06: 436 (R) 2 149 149 5252 00000, Windows sound, faint voices, Windows sound, 111 111 E06: 111, V06: 1, G06: 111 111 574 574 574 000000                                                                                                                                             | USB                  | (Lac/PY/AB) |
| RUS6 | 2-3  | 1133 | 10755   | Mon | Windows sounds, E06: 111 111 111 00000 (R), G06: 3, lots of Windows sounds, E06: 111 221 123456789 9876543210, G06: 123456789 9876543212, S06: 123456789 987654321, Windows sounds, tones, G06: 111 111 00000 21 111 2 4 4 480 4 1, 480 480 480 480 4, Windows sounds, 480 (R) 00000 | USB                  | (PY/AB)     |
| RUS6 | 2-3  | 1359 | 10755   | Mon | Open mic sounds, telephone calling sound, G06: 111 111 111 111 00000                                                                                                                                                                                                                 | USB                  | (PY/AB)     |
| RUS6 | 2-3  | 1533 | 10755   | Mon | G06: 111 111 111 00000, whistling, tones, E06: 480 (R) 86701 8 701 937 937 45 45 00000                                                                                                                                                                                               | USB                  | (PY/AB)     |
| RUS6 | 2-3  | 1557 | 10755   | Mon | 480 480 480 480 480 00000, S06: 480 00000                                                                                                                                                                                                                                            | USB                  | (PY/AB)     |

|             |      |      |       |     |                                                                                                                                          |     |             |
|-------------|------|------|-------|-----|------------------------------------------------------------------------------------------------------------------------------------------|-----|-------------|
| <b>RUS6</b> | 3-3  | 0912 | 10755 | Tue | G06 111 111 111 00000 (R), Windows sounds, E06: 111, G06: 111 111 111 00000, 480 (R) 00000                                               | USB | (PY/AB)     |
| <b>RUS6</b> | 7-3  | 1746 | 6905  | Sat | G06: 111 (R), E06: 111 (R), G06: 111 (R), Windows sound, operator chat                                                                   | USB | (PY/AB)     |
| <b>S06</b>  | 1-3  | 0811 | 10755 | Sun | 480 (R)                                                                                                                                  | USB | (Lac/AB)    |
| <b>S06</b>  | 1-3  | 0831 | 10755 | Sun | 111 rest unreadable                                                                                                                      | USB | (Lac/AB)    |
| <b>S06</b>  | 1-3  | 0835 | 10755 | Sun | unreadable 0 480 (R)                                                                                                                     | USB | (Lac/AB)    |
| <b>S06</b>  | 1-3  | 0836 | 10755 | Sun | 480 (R)                                                                                                                                  | USB | (Lac/AB)    |
| <b>S06</b>  | 1-3  | 0839 | 10755 | Sun | 480 (R) 139 4 unreadable 480 (R). V06 also briefly audible                                                                               | USB | (Lac/AB)    |
| <b>S06</b>  | 1-3  | 0851 | 10755 | Sun | 480 (R)                                                                                                                                  | USB | (Lac/AB)    |
| <b>S06</b>  | 1-3  | 0907 | 10755 | Sun | Windows sound, 0, silence, 480 (R) 00000, silence, 572 11 11 84965 16954 82700 ... 73299 72306 93811 00000 (unpaired groups), silence, 0 | USB | (Lac/PY/AB) |
| <b>S06</b>  | 1-3  | 1127 | 10755 | Sun | 123 45 480 (R) 00000 26410 98528 63025 ... 18964 07654 29461 00000                                                                       | USB | (Lac/AB)    |
| <b>S06</b>  | 1-3  | 1145 | 10755 | Sun | 480                                                                                                                                      | USB | (Lac/AB)    |
| <b>S06</b>  | 1-3  | 1203 | 10755 | Sun | Distorted voice, Windows sounds, feedback sounds, 4 48, 480 (R)                                                                          | USB | (Lac/PY/AB) |
| <b>S06</b>  | 1-3  | 1305 | 10755 | Sun | 480 (R) 00000                                                                                                                            | USB | (Lac/PY/AB) |
| <b>S06</b>  | 1-3  | 1311 | 10755 | Sun | 111 111 00000 00000                                                                                                                      | USB | (Lac/PY/AB) |
| <b>S06</b>  | 1-3  | 1405 | 10755 | Sun | 1 4 480 48 480 (R) 17s silence 480 (R) 00000, many Windows sounds                                                                        | USB | (Lac/AB)    |
| <b>S06</b>  | 1-3  | 1413 | 10755 | Sun | 111 111 111 00000 1 1 5 2 1 11 Windows sounds 111 1 00000 Windows sound                                                                  | USB | (Lac/AB)    |
| <b>S06</b>  | 1-3  | 1428 | 10755 | Sun | 480 (R) 00000, game sounds,                                                                                                              | USB | (Lac/PY/AB) |
| <b>S06</b>  | 1-3  | 1452 | 10755 | Sun | test tones, 329 (R) 00000                                                                                                                | USB | (Lac/PY/AB) |
| <b>S06</b>  | 1-3  | 1458 | 10755 | Sun | 2 9 480 (R) 0000                                                                                                                         | USB | (Lac/PY/AB) |
| <b>S06</b>  | 1-3  | 1557 | 10755 | Sun | 480 00000                                                                                                                                | USB | (AB/LAC/PY) |
| <b>S06</b>  | 2-3  | 0400 | 11616 | Mon | 480 732 54 95526 90278 61897 ... 42129 14402 81303 732 54 00000                                                                          | USB | (Subilo)    |
| <b>S06</b>  | 2-3  | 0420 | 9322  | Mon | 480 732 54 95526 90278 61897 ... 42129 14402 81303 732 54 00000                                                                          | USB | (Subilo)    |
| <b>S06</b>  | 2-3  | 0920 | 10755 | Mon | Windows XP start up, 0, 1, 480 572 11 00000 572 572 572 572 11 84965 16954 82900 ... 73299 72306 93811 00000                             | USB | (Lac)       |
| <b>S06</b>  | 3-3  | 0400 | 11616 | Tue | 480 732 54 95526 90278 61897 ... 42129 14402 81303 732 54 00000                                                                          | USB | (Subilo)    |
| <b>S06</b>  | 3-3  | 0408 | 10755 | Tue | 480 (R) 00000                                                                                                                            | USB | (PY/AB)     |
| <b>S06</b>  | 3-3  | 0420 | 9322  | Tue | 480 732 54 95526 90278 61897 ... 42129 14402 81303 732 54 00000                                                                          | USB | (Subilo)    |
| <b>S06</b>  | 3-3  | 0727 | 10755 | Tue | 111, 480 (R) 84 00000, 480 (R) 548 548 5 584 (R) 22 22 52899 51 234 7 01386 932600 9869326 72297 00000 00000,                            | USB | (PY/AB)     |
| <b>S06</b>  | 4-3  | 0400 | 11616 | Wed | 480 169 8 96511 36968 46317 ... 78347 91333 71244 169 8 480 273 51 27783 18497 24072 ... 24269 84752 86731 273 51 00000                  | USB | (Subilo)    |
| <b>S06</b>  | 4-3  | 0420 | 9322  | Wed | 480 169 8 96511 36968 46317 ... 78347 91333 71244 169 8 480 273 51 27783 18497 24072 ... 24269 84752 86731 273 51 00000                  | USB | (Subilo)    |
| <b>S06</b>  | 5-3  | 0400 | 11616 | Thu | 480 169 8 96511 36968 46317 ... 78347 91333 71244 169 8 480 273 51 27783 18497 24072 ... 24269 84752 86731 273 51 00000                  | USB | (Subilo)    |
| <b>S06</b>  | 5-3  | 0420 | 9322  | Thu | 480 169 8 96511 36968 46317 ... 78347 91333 71244 169 8 480 273 51 27783 18497 24072 ... 24269 84752 86731 273 51 00000                  | USB | (Subilo)    |
| <b>S06</b>  | 6-3  | 0400 | 11616 | Fri | 480 480 480 00000                                                                                                                        | USB | (Subilo)    |
| <b>S06</b>  | 6-3  | 0420 | 9322  | Fri | 480 480 480 00000                                                                                                                        | USB | (Subilo)    |
| <b>S06</b>  | 6-3  | 2000 | 9925  | Fri | 842 842 842 00000                                                                                                                        | USB | (AB/Lac)    |
| <b>S06</b>  | 6-3  | 2100 | 7509  | Fri | 842 842 842 00000                                                                                                                        | USB | (AB/Lac)    |
| <b>S06</b>  | 9-3  | 0400 | 11616 | Mon | No transmission                                                                                                                          | USB | (Subilo)    |
| <b>S06</b>  | 9-3  | 0420 | 9322  | Mon | No transmission                                                                                                                          | USB | (Subilo)    |
| <b>S06</b>  | 10-3 | 0400 | 11616 | Tue | 480 480 480 00000                                                                                                                        | USB | (Subilo)    |
| <b>S06</b>  | 10-3 | 0420 | 9322  | Tue | 480 480 480 00000                                                                                                                        | USB | (Subilo)    |

|     |      |      |       |     |                                                                                                                              |     |          |
|-----|------|------|-------|-----|------------------------------------------------------------------------------------------------------------------------------|-----|----------|
| S06 | 11-3 | 0400 | 11616 | Wed | 480 196 42 66258 30217 54641 ... 06081 75185 92035 196 42 480 723 14 28391 91009<br>81901 1.. 14010 24101 76304 723 14 00000 | USB | (Subilo) |
| S06 | 11-3 | 0420 | 9322  | Wed | 480 196 42 66258 30217 54641 ... 06081 75185 92035 196 42 480 723 14 28391 91009<br>81901 1.. 14010 24101 76304 723 14 00000 | USB | (Subilo) |
| S06 | 11-3 | 1330 | 14395 | Wed | 480 961 45 65171 20265 62074 ... 34282 40627 43957 961 45 00000                                                              | USB | (AB/PY)  |
| S06 | 11-3 | 1730 | 11161 | Wed | 480 961 45 65171 20265 62074 ... 34282 40627 43957 961 45 00000                                                              | USB | (AB/PY)  |
| S06 | 12-3 | 0400 | 11616 | Thu | 480 196 42 66258 30217 54641 ... 06081 75185 92035 196 42 480 723 14 28391 91009<br>81901 1.. 14010 24101 76304 723 14 00000 | USB | (Subilo) |
| S06 | 12-3 | 0420 | 9322  | Thu | 480 196 42 66258 30217 54641 ... 06081 75185 92035 196 42 480 723 14 28391 91009<br>81901 1.. 14010 24101 76304 723 14 00000 | USB | (Subilo) |
| S06 | 16-3 | 0400 | 11616 | Mon | 480 126 53 70461 23401 20489 ... 01922 18327 33191 126 53 00000                                                              | USB | (Subilo) |
| S06 | 16-3 | 0420 | 9322  | Mon | 480 126 53 70461 23401 20489 ... 01922 18327 33191 126 53 00000                                                              | USB | (Subilo) |
| S06 | 16-3 | 1145 | 10755 | Mon | 975 328 60 31076 15179 60424 ... 05093 69550 52264 328 60 00000                                                              | USB | (AB/PY)  |
| S06 | 16-3 | 1245 | 11073 | Mon | 352 671 48 40473 59628 75592 ... 85015 56555 44796 671 48 00000                                                              | USB | (AB/PY)  |
| S06 | 17-3 | 0400 | 11616 | Tue | 480 126 53 70461 23401 20489 ... 01922 18327 33191 126 53 00000                                                              | USB | (Subilo) |
| S06 | 17-3 | 0420 | 9322  | Tue | 480 126 53 70461 23401 20489 ... 01922 18327 33191 126 53 00000                                                              | USB | (Subilo) |
| S06 | 17-3 | 1736 | 11534 | Tue | i.p. 00377 ... 97505 82303 11262 619 45 00000                                                                                | USB | (PY)     |
| S06 | 18-3 | 0400 | 11616 | Wed | 480 597 33 97888 23217 12552 ... 61593 54112 01607 597 33 480 362 19 05294 26278<br>53305 ... 11639 83050 47953 362 19 00000 | USB | (Subilo) |
| S06 | 18-3 | 0420 | 9322  | Wed | 480 597 33 97888 23217 12552 ... 61593 54112 01607 597 33 480 362 19 05294 26278<br>53305 ... 11639 83050 47953 362 19 00000 | USB | (Subilo) |
| S06 | 18-3 | 1800 | 9116  | Wed | 480 275 43 83767 03248 86874 ... 91823 09526 21317 275 43 00000                                                              | USB | (AB/PY)  |
| S06 | 18-3 | 1800 | 9116  | Wed | 480 275 43 83767 03248 86874 ... 91823 09526 21317 275 43 00000                                                              | USB | (Lac)    |
| S06 | 19-3 | 0400 | 11616 | Thu | 480 480 480 00000                                                                                                            | USB | (Subilo) |
| S06 | 19-3 | 0400 | 11616 | Thu | 480 597 33 97888 23217 12552 ... 61593 54112 01607 597 33 480 362 19 05294 26278<br>53305 ... 11639 83050 47953 362 19 00000 | USB | (Subilo) |
| S06 | 19-3 | 0420 | 9322  | Thu | 480 480 480 00000                                                                                                            | USB | (Subilo) |
| S06 | 19-3 | 0420 | 9322  | Thu | 480 597 33 97888 23217 12552 ... 61593 54112 01607 597 33 480 362 19 05294 26278<br>53305 ... 11639 83050 47953 362 19 00000 | USB | (Subilo) |
| S06 | 20-3 | 0400 | 11616 | Fri | 480 480 480 00000                                                                                                            | USB | (Subilo) |
| S06 | 20-3 | 0420 | 9322  | Fri | 480 480 480 00000                                                                                                            | USB | (Subilo) |
| S06 | 20-3 | 2000 | 9925  | Fri | 842 842 842 00000                                                                                                            | USB | (AB)     |
| S06 | 20-3 | 2100 | 7505  | Fri | 842 842 842 00000                                                                                                            | USB | (AB)     |
| S06 | 23-3 | 0400 | 11616 | Mon | 480 159 60 11610 83191 09130 ... 37762 63594 70015 159 60 00000                                                              | USB | (Subilo) |
| S06 | 23-3 | 0420 | 9322  | Mon | 480 159 60 11610 83191 09130 ... 37762 63594 70015 159 60 00000                                                              | USB | (Subilo) |
| S06 | 24-3 | 0400 | 11616 | Tue | 480 159 60 11610 83191 09130 ... 37762 63594 70015 159 60 00000                                                              | USB | (Subilo) |
| S06 | 24-3 | 0420 | 9322  | Tue | 480 159 60 11610 83191 09130 ... 37762 63594 70015 159 60 00000                                                              | USB | (Subilo) |
| S06 | 25-3 | 0400 | 11616 | Wed | 480 673 28 68774 07049 67942 ... 69419 99422 39165 673 28 480 784 26 37940 86842<br>77657 ... 35837 94750 80972 784 26 00000 | USB | (Subilo) |
| S06 | 25-3 | 0420 | 9322  | Wed | 480 673 28 68774 07049 67942 ... 69419 99422 39165 673 28 480 784 26 37940 86842<br>77657 ... 35837 94750 80972 784 26 00000 | USB | (Subilo) |
| S06 | 25-3 | 1241 | 14360 | Wed | i.p. 480 257 48 41864 56846 34347 ... 82623 93404 45829 257 48 00000                                                         | USB | (PY)     |
| S06 | 25-3 | 1305 | 13517 | Wed | i.p. 480 257 48 41864 56846 34347 ... 82623 93404 45829 257 48 00000                                                         | USB | (PY)     |
| S06 | 25-3 | 1733 | 9116  | Wed | i.p. 480 257 48 41864 56846 34347 ... 82623 93404 45829 257 48 00000                                                         | USB | (PY)     |
| S06 | 26-3 | 0400 | 11616 | Thu | 480 673 28 68774 07049 67942 ... 69419 99422 39165 673 28 480 821 25 79119 34417<br>77499 ... 48772 83694 89595 821 28 00000 | USB | (Subilo) |

|             |      |      |       |     |                                                                                                                              |     |              |
|-------------|------|------|-------|-----|------------------------------------------------------------------------------------------------------------------------------|-----|--------------|
| <b>S06</b>  | 26-3 | 0420 | 9322  | Thu | 480 673 28 68774 07049 67942 ... 69419 99422 39165 673 28 480 821 25 79119 34417<br>77499 ... 48772 83694 89595 821 28 00000 | USB | (Subilo)     |
| <b>S06</b>  | 30-3 | 0400 | 11616 | Mon | 480 537 52 24841 43976 51483 ... 02244 12088 82023 537 53 00000                                                              | USB | (Subilo)     |
| <b>S06</b>  | 30-3 | 0420 | 9322  | Mon | 480 537 52 24841 43976 51483 ... 02244 12088 82023 537 53 00000                                                              | USB | (Subilo)     |
| <b>S06</b>  | 31-3 | 0400 | 11616 | Tue | 480 537 52 24841 43976 51483 ... 02244 12088 82023 537 53 00000                                                              | USB | (Subilo)     |
| <b>S06</b>  | 31-3 | 0420 | 9322  | Tue | 480 537 52 24841 43976 51483 ... 02244 12088 82023 537 53 00000                                                              | USB | (Subilo)     |
| <b>S06c</b> | 24-3 | 1037 | 16216 | Tue | Active for 5 min                                                                                                             | USB | (FD)         |
| <b>S06c</b> | 24-3 | 1050 | 16216 | Tue | Active for 5 min                                                                                                             | USB | (FD)         |
| <b>S06c</b> | 24-3 | 1100 | 11168 | Tue | 11039 (R4m)                                                                                                                  | USB | (PY)         |
| <b>S06c</b> | 24-3 | 1415 | 12184 | Tue | 11042 (R4m)                                                                                                                  | USB | (PY)         |
| <b>S06c</b> | 24-3 | 1435 | 15892 | Tue | 11042 (R4m)                                                                                                                  | USB | (AB)         |
| <b>S06c</b> | 24-3 | 1435 | 15892 | Tue | 11042 (R4m)                                                                                                                  | USB | (PY)         |
| <b>S06c</b> | 25-3 | 1435 | 19389 | Wed | 11002 (R4m)                                                                                                                  | USB | (PY)         |
| <b>S06c</b> | 25-3 | 1445 | 17456 | Wed | 11002 (R4m)                                                                                                                  | USB | (PY)         |
| <b>S11a</b> | 1-3  | 0830 | 6433  | Sun | 371/00 Konets                                                                                                                | USB | (AB)         |
| <b>S11a</b> | 2-3  | 0700 | 8597  | Mon | 479/00 Konets                                                                                                                | USB | (AB/Lac)     |
| <b>S11a</b> | 2-3  | 0915 | 6480  | Mon | 485/00 Out                                                                                                                   | USB | (AB/Lac)     |
| <b>S11a</b> | 3-3  | 0445 | 10728 | Tue | 793/00 Konets                                                                                                                | USB | (AB)         |
| <b>S11a</b> | 3-3  | 1400 | 11420 | Tue | 429/00 Konets                                                                                                                | USB | (AB/Lac)     |
| <b>S11a</b> | 4-3  | 0725 | 23353 | Wed | 387/34 Vnimanaye 11995 13929 24133 ... 68484 94398 00747 Vnimanaye (message repeated) Konets                                 | USB | (AB-POL)     |
| <b>S11a</b> | 4-3  | 1850 | 10213 | Wed | 284/00 Konets                                                                                                                | USB | (AB)         |
| <b>S11a</b> | 5-3  | 0700 | 8597  | Thu | 470/00 Konets                                                                                                                | USB | (AB/Lac)     |
| <b>S11a</b> | 6-3  | 0725 | 23353 | Fri | 387/34 Vnimanaye 11995 13929 24133 ... 68484 94398 00747 Vnimanaye (message repeated) Konets                                 | USB | (AB-POL)     |
| <b>S11a</b> | 6-3  | 1040 | 6480  | Fri | 486/00 Konets                                                                                                                | USB | (AB)         |
| <b>S11a</b> | 6-3  | 1400 | 11420 | Fri | 429/00 Konets                                                                                                                | USB | (AB)         |
| <b>S11a</b> | 7-3  | 0830 | 6433  | Sat | 378/37 Vnimanaye 05351 24690 56983 ... 64393 84505 22424 Vnimanaye (message repeated) Konets                                 | USB | (AB/Lac)     |
| <b>S11a</b> | 7-3  | 1850 | 10213 | Sat | 287/00 Konets                                                                                                                | USB | (AB)         |
| <b>S11a</b> | 8-3  | 0830 | 6433  | Sun | 378/37 Vnimanaye 05351 24690 56983 ... 64393 84505 22424 Vnimanaye (message repeated) Konets                                 | USB | (AB)         |
| <b>S11a</b> | 9-3  | 0700 | 8597  | Mon | 475/00 Konets                                                                                                                | USB | (AB/Lac)     |
| <b>S11a</b> | 9-3  | 0915 | 6480  | Mon | 483/00 Out                                                                                                                   | USB | (AB/Lac)     |
| <b>S11a</b> | 10-3 | 1400 | 11420 | Tue | 424/00 Konets                                                                                                                | USB | (AB/Lac)     |
| <b>S11a</b> | 11-3 | 0725 | 23353 | Wed | 384/00 Konets                                                                                                                | USB | (AB-POL/Lac) |
| <b>S11a</b> | 11-3 | 1850 | 10213 | Wed | 285/32 Vnimanaye 74183 79248 55942 ... 44203 47805 68295 Vnimanaye (message repeated) Konets                                 | USB | (AB)         |
| <b>S11a</b> | 12-3 | 0700 | 8597  | Thu | 475/00 Konets                                                                                                                | USB | (AB)         |
| <b>S11a</b> | 12-3 | 0830 | 6433  | Thu | 370/00 Konets                                                                                                                | USB | (Lac)        |
| <b>S11a</b> | 13-3 | 0725 | 23353 | Fri | 387/00 too weak to copy                                                                                                      | USB | (AB)         |
| <b>S11a</b> | 13-3 | 1040 | 6480  | Fri | 481/00 Konets                                                                                                                | USB | (AB)         |
| <b>S11a</b> | 13-3 | 1400 | 11420 | Fri | 424/00 Konets                                                                                                                | USB | (AB)         |
| <b>S11a</b> | 14-3 | 0830 | 6433  | Sat | 370/00 Konets                                                                                                                | USB | (AB)         |
| <b>S11a</b> | 14-3 | 1850 | 10213 | Sat | 281/32 Vnimanaye 61009 77614 49736 ... 04089 82997 39830 Vnimanaye (message repeated) Konets                                 | USB | (AB/Lac)     |
| <b>S11a</b> | 15-3 | 0830 | 6433  | Sun | 376/00 Konets                                                                                                                | USB | (AB)         |

|             |      |      |       |     |                                                                                              |                  |              |
|-------------|------|------|-------|-----|----------------------------------------------------------------------------------------------|------------------|--------------|
| <b>S11a</b> | 16-3 | 0700 | 8597  | Mon | 471/32 Vnimanaye 40712 61158 10186 ... 83235 83329 83747 Vnimanaye (message repeated) Konets | USB              | (AB/Lac)     |
| <b>S11a</b> | 16-3 | 0915 | 6480  | Mon | 487/36 Vnimanaye 59459 80137 05140 ... 71564 79933 64914 Vnimanaye (message repeated) Konets | USB              | (AB/Lac)     |
| <b>S11a</b> | 17-3 | 1400 | 11420 | Tue | 429/00 Konets                                                                                | USB              | (AB)         |
| <b>S11a</b> | 18-3 | 0725 | 23353 | Wed | 380/00 Konets                                                                                | USB              | (AB-POL)     |
| <b>S11a</b> | 18-3 | 1850 | 10213 | Wed | 284/00 Konets                                                                                | USB              | (AB)         |
| <b>S11a</b> | 19-3 | 0700 | 8597  | Thu | 471/32 Vnimanaye 40712 61158 10186 ... 83235 83329 83747 Vnimanaye (message repeated) Konets | USB              | (AB)         |
| <b>S11a</b> | 20-3 | 0725 | 23353 | Fri | 387/35 Vnimanaye 82951 40079 29823 ... 50727 20527 94947 Vnimanaye (message repeated) Konets | USB              | (Lac)        |
| <b>S11a</b> | 20-3 | 1040 | 6480  | Fri | 487/36 Vnimanaye 59459 80137 05140 ... 71564 79933 64914 Vnimanaye (message repeated) Konets | USB              | (AB)         |
| <b>S11a</b> | 20-3 | 1400 | 11420 | Fri | 422/00 Konets                                                                                | USB              | (AB)         |
| <b>S11a</b> | 21-3 | 0830 | 6433  | Sat | 378/00 Konets                                                                                | USB              | (AB)         |
| <b>S11a</b> | 21-3 | 1850 | 10213 | Sat | 287/00 Konets                                                                                | USB              | (AB)         |
| <b>S11a</b> | 22-3 | 0830 | 6433  | Sun | 370/00 Konets                                                                                | USB              | (AB)         |
| <b>S11a</b> | 23-3 | 0700 | 8597  | Mon | 477/00 Konets                                                                                | USB              | (AB/Lac)     |
| <b>S11a</b> | 23-3 | 0915 | 6480  | Mon | 484/00 Konets                                                                                | USB              | (AB)         |
| <b>S11a</b> | 24-3 | 1400 | 11420 | Tue | 424/34 Vnimanaye 57391 47125 11307 ... 01786 72920 43190 Vnimanaye (message repeated) Konets | USB              | (AB/Lac)     |
| <b>S11a</b> | 25-3 | 1850 | 10213 | Wed | 286/00 Konets                                                                                | USB              | (AB)         |
| <b>S11a</b> | 26-3 | 0445 | 10728 | Thu | 798/00 Konets                                                                                | USB              | (AB)         |
| <b>S11a</b> | 26-3 | 0700 | 8597  | Thu | 472/00 Konets                                                                                | USB              | (AB)         |
| <b>S11a</b> | 27-3 | 1040 | 6480  | Fri | 483/00 Konets                                                                                | USB              | (AB)         |
| <b>S11a</b> | 27-3 | 1400 | 11420 | Fri | 424/34 Vnimanaye 57391 47125 11307 ... 01786 72920 43190 Vnimanaye (message repeated) Konets | USB              | (AB)         |
| <b>S11a</b> | 28-3 | 0830 | 6433  | Sat | 372/00 Konets                                                                                | USB              | (AB)         |
| <b>S11a</b> | 28-3 | 1850 | 10213 | Sat | 287/00 Konets                                                                                | USB              | (AB)         |
| <b>S11a</b> | 29-3 | 0830 | 6433  | Sun | 373/00 Konets                                                                                | USB              | (AB)         |
| <b>S11a</b> | 30-3 | 0700 | 8597  | Mon | 476/00 Konets                                                                                | USB              | (AB)         |
| <b>S11a</b> | 30-3 | 0915 | 6480  | Mon | 484/00 Konets                                                                                | USB              | (AB-POL/Lac) |
| <b>S11a</b> | 31-3 | 1400 | 11420 | Tue | 426/00 Konets                                                                                | USB              | (AB/Lac)     |
| <b>TUN</b>  | 5-3  | 0641 | 26890 | Thu | STAT16: Embassy Riyadh clg STAT155: MFA Tunis (Hiram)                                        | Mil-STD-188-141A | (Hiram)      |
| <b>TUN</b>  | 5-3  | 0650 | 19675 | Thu | STAT11: Embassy Amman clg STAT155: MFA Tunis (Hiram)                                         | Mil-STD-188-141A | (Hiram)      |
| <b>TUN</b>  | 9-3  | 0757 | 23540 | Mon | STAT11: Tunisian embassy Amman sounding                                                      | Mil-STD-188-141A | (Hiram)      |
| <b>TUN</b>  | 9-3  | 0758 | 19675 | Mon | STAT11: Tunisian embassy Amman clg STAT155: MFA Tunis                                        | Mil-STD-188-141A | (Hiram)      |
| <b>TUN</b>  | 9-3  | 1018 | 23540 | Mon | STAT151: MFA Tunis sounding                                                                  | Mil-STD-188-141A | (Hiram)      |
| <b>TUN</b>  | 10-3 | 0737 | 18295 | Tue | STAT5: Unid Tunisian embassy clg STAT154: MFA Tunis                                          | Mil-STD-188-141A | (AB)         |
| <b>TUN</b>  | 10-3 | 0739 | 18295 | Tue | STAT16: Unid Tunisian embassy clg STAT155: MFA Tunis                                         | Mil-STD-188-141A | (AB)         |
| <b>TUN</b>  | 10-3 | 0739 | 18295 | Tue | STAT155: MFA Tunis ack call of STAT16: unid embassy followed by Mil-STD-188-110A traffic     | Mil-STD-188-141A | (AB)         |
| <b>TUN</b>  | 10-3 | 0759 | 18295 | Tue | STAT155: MFA Tunis clg STAT13: Tunisian embassy Cairo                                        | Mil-STD-188-141A | (AB)         |
| <b>TUN</b>  | 11-3 | 0718 | 23540 | Wed | STAT12: Tunisian embassy Ankara clg STAT151: MFA Tunis                                       | Mil-STD-188-141A | (Hiram)      |
| <b>TUN</b>  | 12-3 | 0608 | 18295 | Thu | STAT12: Tunisian embassy Ankara clg STAT151: MFA Tunis                                       | Mil-STD-188-141A | (AB)         |
| <b>TUN</b>  | 12-3 | 0624 | 18295 | Thu | STAT11: Tunisian embassy Amman clg STAT155: MFA Tunis                                        | Mil-STD-188-141A | (AB)         |
| <b>TUN</b>  | 12-3 | 0727 | 18295 | Thu | STAT5: Unid Tunisian embassy clg STAT154: MFA Tunis                                          | Mil-STD-188-141A | (AB)         |

|      |      |      |       |     |                                                                                           |                  |          |
|------|------|------|-------|-----|-------------------------------------------------------------------------------------------|------------------|----------|
| TUN  | 12-3 | 0753 | 18295 | Thu | STAT154: MFA Tunis clg STAT5: Unid Tunisian embassy                                       | Mil-STD-188-141A | (AB)     |
| TUN  | 19-3 | 0736 | 18295 | Thu | STAT11: Tunisian embassy Amman clg STAT155: MFA Tunis                                     | Mil-STD-188-141A | (AB)     |
| TUN  | 19-3 | 0757 | 18295 | Thu | STAT5: Unid Tunisian embassy clg STAT154: MFA Tunis followed by Mil-STD-188-110A traffic  | Mil-STD-188-141A | (AB)     |
| UM04 | 1-3  | 0800 | 4735  | Sun | VVV VVV PROMRCh = 01 03 = 1000 0930 0980 1150 1660 ... 0800 0680 0730 0880 1290 = AR      | CW               | (Subilo) |
| UM04 | 2-3  | 0800 | 4735  | Mon | VVV VVV PROMRCh = 02 03 = very weak, largely unreadable                                   | CW               | (AB-GRC) |
| UM04 | 2-3  | 0800 | 4735  | Mon | VVV VVV PROMRCh = 02 03 = 1000 0970 1020 1190 1700 ... 0800 0690 0740 0890 1310 = AR      | CW               | (Subilo) |
| UM04 | 3-3  | 0800 | 4735  | Tue | VVV VVV PROMRCh = 03 03 = 1000 0930 0990 1160 1670 ... 0800 0690 0730 0890 1310 = AR      | CW               | (AB-GRC) |
| UM04 | 4-3  | 0800 | 4735  | Wed | VVV VVV PROMRCh = 04 03 = 1000 0940 0990 1160 1660 ... 0800 0690 0740 0890 1310 = AR      | CW               | (AB-GRC) |
| UM04 | 5-3  | 0800 | 4735  | Thu | VVV VVV PROMRCh = 05 03 = 1000 0940 0990 1150 1660 ... 0800 0690 0740 0890 1310 = AR      | CW               | (AB-HNG) |
| UM04 | 6-3  | 0800 | 4735  | Fri | VVV VVV PROMRCh = 06 03 = 1000 0940 0990 1160 1660 ... 0800 0700 0750 0900 1320 = AR      | CW               | (Subilo) |
| UM04 | 7-3  | 0800 | 4735  | Sat | VVV VVV PROMRCh = 07 03 = 1000 1030 1070 1240 1760 ... 0800 0710 0760 0910 1340 = AR      | CW               | (AB-HNG) |
| UM04 | 8-3  | 0800 | 4735  | Sun | VVV VVV PROMRCh = 08 03 = 1000 0930 0980 1150 1640 ... 0800 0710 0750 0460 1330 = AR      | CW               | (AB-GRC) |
| UM04 | 9-3  | 0800 | 4735  | Mon | VVV VVV PROMRCh = 09 03 = 1000 0940 0990 1160 1650 ... 0800 0710 0760 0910 1340 = AR      | CW               | (AB-GRC) |
| UM04 | 10-3 | 0800 | 4735  | Tue | VVV VVV PROMRCh 10 03 = 1000 0940 0990 1150 1650 ... 0800 0720 0760 0920 1340 = AR        | CW               | (AB-GRC) |
| UM04 | 11-3 | 0800 | 4735  | Wed | VVV VVV PROMRCh = 11 03 = 1000 0940 0990 1150 1630 ... 0800 0720 0760 0920 1340 = AR      | CW               | (AB-GRC) |
| UM04 | 12-3 | 0800 | 4735  | Thu | VVV VVV PROMRCh = 12 03 = 1000 0940 0980 1150 1630 ... 0800 0720 0770 0920 1340 = AR      | CW               | (AB-HNG) |
| UM04 | 14-3 | 0755 | 4735  | Sat | Two dashes VV two dashes VV (test)                                                        | CW               | (AB-HNG) |
| UM04 | 14-3 | 0800 | 4735  | Sat | VVV VVV PROMRCh = 14 03 = 1000 0930 0980 1140 1620 ... 0800 0720 0770 0920 1340 = AR      | CW               | (AB-HNG) |
| UM04 | 15-3 | 0800 | 4735  | Sun | VVV VVV = 15 03 = 1000 0930 0980 1130 1610 ... 0800 0720 0770 0920 1340 = AR (no PROMRCh) | CW               | (AB-HNG) |
| UM04 | 16-3 | 0800 | 4735  | Mon | VVV VVV PROMRCh = 16 03 = 1000 0920 0960 1120 1590 ... 0800 0720 0770 0910 1340 = AR      | CW               | (AB-GRC) |
| UM04 | 17-3 | 0800 | 4735  | Tue | VVV VVV PROMRCh = 17 03 = 1000 0910 0950 1110 1570 ... 0800 0710 0760 0910 1330 = AR      | CW               | (AB-HNG) |
| UM04 | 18-3 | 0800 | 4735  | Wed | VVV VVV PROMRCh = 18 03 = 1000 0900 0940 1090 1550 ... 0800 0710 0760 0900 1320 = AR      | CW               | (AB-GRC) |
| UM04 | 19-3 | 0800 | 4735  | Thu | VVV VVV PROMRCh = 19 03 = 1000 0840 0880 1040 1480 ... 0800 0700 0750 0890 1310 = AR      | CW               | (AB-HNG) |
| UM04 | 20-3 | 0800 | 4735  | Fri | VVV VVV PROMRCh = 20 03 = 1000 0880 0930 1080 1520 ... 0800 0700 0750 0900 1310 = AR      | CW               | (Subilo) |
| UM04 | 21-3 | 0800 | 4735  | Sat | VVV VVV PROMRCh = 21 03 = 1000 0870 0910 1060 1510 ... 0800 0700 0740 0890 1310 = AR      | CW               | (Subilo) |
| UM04 | 22-3 | 0800 | 4735  | Sun | VVV VVV PROMRCh = 22 03 = 1000 0860 0910 1050 1500 ... 0800 0700 0740 0890 1300 = AR      | CW               | (AB-HNG) |
| UM04 | 23-3 | 0800 | 4735  | Mon | VVV VVV PROMRCh = 23 03 = 1000 0870 0910 1060 1510 ... 0800 0690 0740 0890 1300 = AR      | CW               | (AB-GRC) |
| UM04 | 24-3 | 0800 | 4735  | Tue | VVV VVV PROMRCh = 24 03 = 1000 0850 0890 1040 1480 ... 0800 0680 0730 0880 1290 = AR      | CW               | (AB-HNG) |
| UM04 | 25-3 | 0759 | 4735  | Wed | VVV VVV PROMRCh = 25 03 = 1000 0840 0880 1030 1470 ... 0800 0680 0720 0870 1280 = AR      | CW               | (AB-GRC) |
| UM04 | 26-3 | 0800 | 4735  | Thu | VVV VVV PROMRCh = 26 03 = 1000 0830 0870 1020 1460 ... 0800 0670 0710 0860 1270 = AR      | CW               | (AB-HNG) |
| UM04 | 27-3 | 0800 | 4753  | Fri | VVV VVV PROMRCh = 27 03 = 1000 0820 0860 1010 1450 ... 0800 0660 0710 0850 1260 = AR      | CW               | (AB-HNG) |
| UM04 | 28-3 | 0800 | 4735  | Sat | VVV VVV PROMRCh = 28 03 = 1000 0810 0850 1000 1430 ... 0800 0650 0700 0850 1250 = AR      | CW               | (Subilo) |
| UM04 | 29-3 | 0700 | 4735  | Sun | VVV VVV PROMRCh = 29 03 = 1000 0810 0850 1000 1430 ... 0000 0650 0700 0850 1250 = AR      | CW               | (Subilo) |
| UM04 | 30-3 | 0701 | 4735  | Mon | VVV VVV PROMRCh = 30 03 = 1000 0810 0850 1000 1430 ... 0800 0660 0700 0850 1250 = AR      | CW               | (AB-GRC) |
| UM04 | 31-3 | 0700 | 4735  | Tue | VVV VVV PROMRCh = 31 03 = 1000 0810 0850 1000 1440 ... 0800 0650 0700 0840 1250 = AR      | CW               | (AB-HNG) |
| UM10 | 1-3  | 1240 | 3531  | Sun | JZZN                                                                                      | CW               | (JPL)    |
| UM10 | 1-3  | 1240 | 4310  | Sun | JZZN                                                                                      | CW               | (JPL)    |
| UM10 | 1-3  | 1405 | 3250  | Sun | VI4T                                                                                      | CW               | (JPL)    |
| UM10 | 1-3  | 1405 | 3975  | Sun | VI4T                                                                                      | CW               | (JPL)    |
| UM10 | 1-3  | 2035 | 3250  | Sun | VI4T                                                                                      | CW               | (JPL)    |
| UM10 | 1-3  | 2035 | 3975  | Sun | VI4T                                                                                      | CW               | (JPL)    |
| UM10 | 1-3  | 2110 | 3531  | Sun | JZZN                                                                                      | CW               | (JPL)    |
| UM10 | 1-3  | 2110 | 4310  | Sun | JZZN                                                                                      | CW               | (JPL)    |
| UM10 | 3-3  | 1210 | 3210  | Tue | 7CJK                                                                                      | CW               | (JPL)    |
| UM10 | 3-3  | 1210 | 3718  | Tue | 7CJK                                                                                      | CW               | (JPL)    |
| UM10 | 3-3  | 1220 | 3326  | Tue | U34D                                                                                      | CW               | (JPL)    |



|      |      |      |         |     |                                                                                                |                  |         |
|------|------|------|---------|-----|------------------------------------------------------------------------------------------------|------------------|---------|
| UM10 | 3-3  | 1220 | 4112    | Tue | U34D                                                                                           | CW               | (JPL)   |
| UM10 | 3-3  | 1240 | 3210    | Tue | 7CJK                                                                                           | CW               | (JPL)   |
| UM10 | 3-3  | 1240 | 3718    | Tue | 7CJK                                                                                           | CW               | (JPL)   |
| UM10 | 3-3  | 1350 | 3326    | Tue | U34D                                                                                           | CW               | (JPL)   |
| UM10 | 3-3  | 1350 | 4112    | Tue | U34D                                                                                           | CW               | (JPL)   |
| UM10 | 4-3  | 1740 | 3210    | Wed | 7CJK                                                                                           | CW               | (JPL)   |
| UM10 | 4-3  | 1740 | 3718    | Wed | 7CJK                                                                                           | CW               | (JPL)   |
| UM10 | 4-3  | 1750 | 3326    | Wed | U34D                                                                                           | CW               | (JPL)   |
| UM10 | 4-3  | 1750 | 4112    | Wed | U34D                                                                                           | CW               | (JPL)   |
| UM10 | 6-3  | 1210 | 3210    | Fri | 7CJK                                                                                           | CW               | (JPL)   |
| UM10 | 6-3  | 1210 | 3718    | Fri | 7CJK                                                                                           | CW               | (JPL)   |
| UM10 | 7-3  | 1620 | 3326    | Sat | U34D                                                                                           | CW               | (JPL)   |
| UM10 | 7-3  | 1620 | 4112    | Sat | U34D                                                                                           | CW               | (JPL)   |
| UM10 | 8-3  | 1710 | 3210    | Sun | 7CJK                                                                                           | CW               | (JPL)   |
| UM10 | 8-3  | 1710 | 3718    | Sun | 7CJK                                                                                           | CW               | (JPL)   |
| UM10 | 10-3 | 1710 | 3210    | Tue | 7CJK                                                                                           | CW               | (JPL)   |
| UM10 | 10-3 | 1710 | 3718    | Tue | 7CJK                                                                                           | CW               | (JPL)   |
| UM10 | 10-3 | 1720 | 3326    | Tue | U34D                                                                                           | CW               | (JPL)   |
| UM10 | 10-3 | 1720 | 4112    | Tue | U34D                                                                                           | CW               | (JPL)   |
| UM10 | 13-3 | 1540 | 3210    | Fri | 7CJK                                                                                           | CW               | (JPL)   |
| UM10 | 13-3 | 1540 | 3718    | Fri | 7CJK                                                                                           | CW               | (JPL)   |
| UM10 | 22-3 | 1540 | 3718    | Sun | 7CJK                                                                                           | CW               | (JPL)   |
| UM10 | 26-3 | 1540 | 3210    | Thu | 7CJK                                                                                           | CW               | (JPL)   |
| UM10 | 26-3 | 1540 | 3718    | Thu | 7CJK                                                                                           | CW               | (JPL)   |
| UM10 | 27-3 | 1650 | 3326    | Fri | U34D                                                                                           | CW               | (JPL)   |
| UM10 | 27-3 | 1650 | 4112    | Fri | U34D                                                                                           | CW               | (JPL)   |
| UM10 | 30-3 | 1840 | 3210    | Mon | 7CJK                                                                                           | CW               | (JPL)   |
| UM10 | 30-3 | 1840 | 3718    | Mon | 7CJK                                                                                           | CW               | (JPL)   |
| UM10 | 30-3 | 1850 | 4112    | Mon | U34D                                                                                           | CW               | (JPL)   |
| UM10 | 30-3 | 1850 | 4112    | Mon | U34D                                                                                           | CW               | (JPL)   |
| USA  | 2-3  | 0635 | 18248.6 | Mon | KWS98: US Embassy Bucharest                                                                    | Mil-STD-188-141A | (Hiram) |
| USA  | 2-3  | 0939 | 20810.6 | Mon | KWX59: US Embassy Vienna                                                                       | Mil-STD-188-141A | (Hiram) |
| USA  | 3-3  | 0852 | 06902.6 | Tue | KWT91: US Embassy Berlin                                                                       | Mil-STD-188-141A | (Hiram) |
| USA  | 3-3  | 0853 | 08058.6 | Tue | KWB48: RIMC Frankfurt [CMD AMD][^: P,)^?=#;W!Y(2 V,R4]                                         | Mil-STD-188-141A | (Hiram) |
| USA  | 4-3  | 1612 | 10733.6 | Wed | KWS92: US Embassy Zagreb clg KWS93 US Embassy Belgrade                                         | Mil-STD-188-141A | (Hiram) |
| USA  | 4-3  | 1733 | 11168.6 | Wed | KWS92: US Embassy Zagreb clg EUR9 UNID                                                         | Mil-STD-188-141A | (Hiram) |
| USA  | 5-3  | 0822 | 11168.6 | Thu | KWS78: US Embassy Bratislava                                                                   | Mil-STD-188-141A | (Hiram) |
| USA  | 5-3  | 0823 | 08058.6 | Thu | KWS78: US Embassy Bratislava                                                                   | Mil-STD-188-141A | (Hiram) |
| USA  | 5-3  | 1009 | 08248.6 | Thu | KWS95: US Embassy Tirana                                                                       | Mil-STD-188-141A | (Hiram) |
| USA  | 5-3  | 1155 | 11168.6 | Thu | KWT98: US Embassy Bern                                                                         | Mil-STD-188-141A | (Hiram) |
| USA  | 5-3  | 1159 | 20810.6 | Thu | KWP98: US Embassy Tunis                                                                        | Mil-STD-188-141A | (Hiram) |
| USA  | 10-3 | 1239 | 18248.6 | Tue | KWW25: US embassy Oslo clg K VX53 US embassy Vilnius followed by an encrypted CMD AMD command  | Mil-STD-188-141A | (Hiram) |
| USA  | 10-3 | 1240 | 13506.6 | Tue | KWW25: US embassy Oslo clg K VX53: US embassy Vilnius followed by an encrypted CMD AMD command | Mil-STD-188-141A | (Hiram) |
| USA  | 10-3 | 1241 | 13506.6 | Tue | KVX53: US embassy Vilnius clg KWW25: US embassy Oslo followed by an encrypted CMD AMD command  | Mil-STD-188-141A | (Hiram) |

|     |      |      |         |     |                                                                                        |                  |             |
|-----|------|------|---------|-----|----------------------------------------------------------------------------------------|------------------|-------------|
| USA | 10-3 | 1306 | 13503.6 | Tue | KWB48: RIMC Frankfurt                                                                  | Mil-STD-188-141A | (Hiram)     |
| USA | 11-3 | 0810 | 05748.6 | Wed | KWB48: RIMC Frankfurt clg K VX54: US embassy Riga followed by an encrypted AMD command | Mil-STD-188-141A | (Hiram)     |
| USA | 11-3 | 0939 | 08058.6 | Wed | KWB48: RIMC Frankfurt clg K VX54: US embassy Riga                                      | Mil-STD-188-141A | (Hiram)     |
| USA | 11-3 | 1304 | 11168.6 | Wed | KXV45: US embassy Rome clg KWA43: US Consulate General Milan                           | Mil-STD-188-141A | (Hiram)     |
| USA | 11-3 | 1317 | 06902.6 | Wed | KXV45: US embassy Rome sounding                                                        | Mil-STD-188-141A | (Hiram)     |
| USA | 11-3 | 1318 | 10733.6 | Wed | KXV45: US embassy Rome clg KWA43:US Consulate General Milan                            | Mil-STD-188-141A | (Hiram)     |
| USA | 28-3 | 1351 | 11168.6 | Sat | KVX56: US embassy Helsinki sounding                                                    | Mil-STD-188-141A | (AB)        |
| USA | 30-3 | 1009 | 16283.6 | Mon | KWA22: US consulate Ponta Delgada sounding                                             | Mil-STD-188-141A | (Hiram)     |
| USA | 30-3 | 1215 | 8058.6  | Mon | KWS95: US embassy, Tirana sounding                                                     | Mil-STD-188-141A | (F4LKC)     |
| USA | 30-3 | 1348 | 20810.6 | Mon | KFB90: US embassy, Dakar sounding                                                      | Mil-STD-188-141A | (F4LKC)     |
| USA | 30-3 | 1409 | 20810.6 | Mon | KWP95: US embassy, Rabat clg KWA22: US consulate, Ponta Delgada                        | Mil-STD-188-141A | (F4LKC)     |
| USA | 30-3 | 1417 | 24883.6 | Mon | KWP97: US embassy Algiers sounding                                                     | Mil-STD-188-141A | (Hiram)     |
| USA | 31-3 | 0852 | 20810.6 | Tue | KWA22: US consulate, Ponta Delgada clg KFB90: US embassy, Dakar                        | Mil-STD-188-141A | (F4LKC)     |
| USA | 31-3 | 0920 | 20810.6 | Tue | KWK42: US embassy, Nouakchott clg KFB90: US embassy, Dakar                             | Mil-STD-188-141A | (F4LKC)     |
| USA | 31-3 | 1120 | 20810.6 | Tue | KWJ34: Unid US embassy clg KFB90: US embassy, Dakar                                    | Mil-STD-188-141A | (F4LKC)     |
| V06 | 1-3  | 1422 | 10755   | Sun | 9 ??? 6?5 9                                                                            | USB              | (Lac/PY/AB) |
| V07 | 1-3  | 0200 | 19172   | Sun | 112 112 112 1 9633 121 9633 121 92677 54077 74951 ... 76346 55207 67734 000 000        | USB              | (Dan)       |
| V07 | 1-3  | 0220 | 17472   | Sun | 112 112 112 1 9633 121 9633 121 92677 54077 74951 ... 76346 55207 67734 000 000        | USB              | (Dan)       |
| V07 | 1-3  | 0240 | 16272   | Sun | 112 112 112 1 9633 121 9633 121 92677 54077 74951 ... 76346 55207 67734 000 000        | USB              | (Dan)       |
| V07 | 8-3  | 0200 | 19172   | Sun | 112 112 112 1 9553 68 9553 68 49283 46908 70892 ... 13799 69373 47929 000 000          | USB              | (Dan)       |
| V07 | 8-3  | 0220 | 17472   | Sun | 112 112 112 1 9553 68 9553 68 49283 46908 70892 ... 13799 69373 47929 000 000          | USB              | (Dan)       |
| V07 | 8-3  | 0240 | 16272   | Sun | 112 112 112 1 9553 68 9553 68 49283 46908 70892 ... 13799 69373 47929 000 000          | USB              | (Dan)       |
| V07 | 15-3 | 0200 | 19172   | Sun | 112 112 112 1 3734 119 3734 119 42293 12132 34413 ... 28850 43555 05982 000 000        | USB              | (Dan)       |
| V07 | 15-3 | 0220 | 17472   | Sun | 112 112 112 1 3734 119 3734 119 42293 12132 34413 ... 28850 43555 05982 000 000        | USB              | (Dan)       |
| V07 | 15-3 | 0240 | 16272   | Sun | 112 112 112 1 3734 119 3734 119 42293 12132 34413 ... 28850 43555 05982 000 000        | USB              | (Dan)       |
| V07 | 20-3 | 0200 | 19172   | Fri | 112 112 112 1 4470 81 4470 81 23674 60988 65564 ... 71747 85946 71005 000 000          | USB              | (Dan)       |
| V07 | 22-3 | 0200 | 19172   | Sun | 112 112 112 1 5312 82 5312 82 87135 ... (too weak to copy)                             | USB              | (Dan)       |
| V07 | 22-3 | 0220 | 17472   | Sun | 112 112 112 1 5312 82 5312 82 87135 ... (too weak to copy)                             | USB              | (Dan)       |
| V07 | 22-3 | 0240 | 16272   | Sun | 112 112 112 1 5312 82 5312 82 87135 ... (too weak to copy)                             | USB              | (Dan)       |
| V07 | 29-3 | 0220 | 17472   | Sun | 112 112 112 1 4470 81 4470 81 23674 60988 65564 ... 71747 85946 71005 000 000          | USB              | (Dan)       |
| V07 | 29-3 | 0240 | 16272   | Sun | 112 112 112 1 4470 81 4470 81 23674 60988 65564 ... 71747 85946 71005 000 000          | USB              | (Dan)       |
| V13 | 17-3 | 0030 | 15890   | Tue | New Star Broadcasting. Station 3. Messages to units 1921, 5559, 8955                   | USB              | (FSpy)      |
| V13 | 17-3 | 0100 | 20025   | Tue | New Star Broadcasting. Station 4. Messages to units 2023, 8603, 9161                   | USB              | (FSpy)      |
| V13 | 17-3 | 0130 | 21000   | Tue | New Star Broadcasting. Station 1. Messages to units 1088, 2130, 9764                   | USB              | (FSpy)      |
| V13 | 20-3 | 0300 | 9276    | Fri | New Star Broadcasting. Station 2. Messages to units 2428, 8182, 8679                   | USB              | (FSpy)      |
| V13 | 22-3 | 0000 | 15890   | Sun | New Star Broadcasting. Station 3. Messages to units 1881, 3133, 8708                   | USB              | (FSpy)      |
| V13 | 22-3 | 0030 | 19052   | Sun | New Star Broadcasting. Station 1. Messages to units 4898, 7875, 9393                   | USB              | (FSpy)      |
| V13 | 25-3 | 0030 | 18040   | Wed | New Star Broadcasting. Station 4. Messages to units 1265, 4474, 7109                   | USB              | (FSpy)      |
| V13 | 25-3 | 0200 | 16050   | Wed | New Star Broadcasting. Station 5. Messages to units 0370, 2313, 7940                   | USB              | (FSpy)      |
| V13 | 26-3 | 0230 | 8300    | Thu | New Star Broadcasting. Station 2. Messages to units 3123, 5753, 9930                   | USB              | (FSpy)      |
| V13 | 29-3 | 0000 | 15890   | Sun | New Star Broadcasting. Station 3. Messages to units 2788, 4636, 9947                   | USB              | (FSpy)      |
| V13 | 29-3 | 0100 | 21000   | Sun | New Star Broadcasting. Station 1. Messages to units 4940, 6003, 9061                   | USB              | (FSpy)      |
| V13 | 29-3 | 0200 | 16050   | Sun | New Star Broadcasting. Station 5. Messages to units 7907, 9491, 9637                   | USB              | (FSpy)      |
| V13 | 29-3 | 0330 | 18040   | Sun | New Star Broadcasting. Station 4. Messages to units 7004, 8373, 9014                   | USB              | (FSpy)      |
| V13 | 30-3 | 0230 | 8300    | Mon | New Star Broadcasting. Station 2. Messages to units 0203, 5942, 8185                   | USB              | (FSpy)      |
| V23 | 1-3  | 1423 | 10755   | Sun | 5, electronic music fragment, Windows sound, game sounds,                              | USB              | (Lac/PY/AB) |



|     |      |      |        |     |                                                                              |     |            |
|-----|------|------|--------|-----|------------------------------------------------------------------------------|-----|------------|
| V26 | 12-3 | 1140 | 4156   | Thu | Voice traffic //9042, 6352, 4156 kHz                                         | LSB | (JPL)      |
| V26 | 12-3 | 1140 | 6352   | Thu | Voice traffic //9042, 6352, 4156 kHz                                         | LSB | (JPL)      |
| V26 | 12-3 | 1140 | 9042   | Thu | Voice traffic //9042, 6352, 4156 kHz                                         | LSB | (JPL)      |
| V26 | 12-3 | 1211 | 4338.3 | Thu | Voice traffic                                                                | LSB | (JPL)      |
| V26 | 13-3 | 1141 | 4156   | Fri | Voice traffic //9042, 6352, 4156 kHz                                         | LSB | (JPL)      |
| V26 | 13-3 | 1141 | 6352   | Fri | Voice traffic //9042, 6352, 4156 kHz                                         | LSB | (JPL)      |
| V26 | 13-3 | 1141 | 9042   | Fri | Voice traffic //9042, 6352, 4156 kHz                                         | LSB | (JPL)      |
| V26 | 14-3 | 1430 | 3182   | Sat | Voice traffic, at 1434z followed by unid digital mode                        | LSB | (JPL)      |
| V28 | 3-3  | 2102 | 3045   | Tue | Parrot                                                                       | AM  | (HK)       |
| V28 | 3-3  | 2102 | 3068   | Tue | Parrot                                                                       | AM  | (HK)       |
| V28 | 3-3  | 2102 | 5491   | Tue | Parrot                                                                       | AM  | (HK)       |
| V28 | 4-3  | 0905 | 3045   | Wed | Parrot                                                                       | AM  | (HK)       |
| V28 | 4-3  | 0905 | 5255   | Wed | Parrot. Male opertaor                                                        | AM  | (HK)       |
| V32 | 1-3  | 1800 | 7910   | Sun | Messages in Farsi                                                            | USB | (AB)       |
| V32 | 2-3  | 1800 | 7910   | Mon | Several messages in Farsi                                                    | USB | (AB)       |
| V32 | 3-3  | 0200 | 7910   | Tue | Messages in Farsi                                                            | USB | (qsr711)   |
| V32 | 3-3  | 1800 | 7910   | Tue | Several messages in Farsi                                                    | USB | (AB)       |
| V32 | 3-3  | 1800 | 7910   | Tue | Messages in Farsi                                                            | USB | (Lac)      |
| V32 | 4-3  | 0200 | 7910   | Wed | Messages in Farsi                                                            | USB | (AB)       |
| V32 | 4-3  | 1800 | 7910   | Wed | Messages in Farsi                                                            | USB | (AB)       |
| V32 | 5-3  | 0200 | 7910   | Thu | Jammed by Iran                                                               | USB | (AB/Hiram) |
| V32 | 5-3  | 1800 | 7910   | Thu | V32 not heard but Iran jammed the frequency anyway. Jamming started at 1820z | USB | (AB/Hiram) |
| V32 | 6-3  | 0200 | 7910   | Fri | Farsi station not heard. Jammer active between 0151 and 0317 UTC             | USB | (AB)       |
| V32 | 6-3  | 1800 | 7910   | Fri | V32 not heard. Strong Iranian jammer                                         | AM  | (AB)       |
| V32 | 6-3  | 1913 | 7842   | Fri | Farsi message i.p.                                                           | USB | (Hiram)    |
| V32 | 7-3  | 0200 | 7910   | Sat | Iranian jammer, no V32                                                       | USB | (AB)       |
| V32 | 7-3  | 1629 | 7842   | Sat | Tests                                                                        | USB | (AB)       |
| V32 | 7-3  | 1800 | 7842   | Sat | Messages in Farsi                                                            | USB | (AB)       |
| V32 | 7-3  | 1802 | 7910   | Sat | Iranian jammer. V32 moved to 7842 kHz                                        | AM  | (AB)       |
| V32 | 7-3  | 1858 | 7842   | Sat | Messages in Farsi                                                            | USB | (AB)       |
| V32 | 8-3  | 0200 | 7842   | Sun | Messages in Farsi                                                            | USB | (AB)       |
| V32 | 8-3  | 0200 | 7910   | Sun | Iranian jammer                                                               | AM  | (AB)       |
| V32 | 8-3  | 1800 | 7842   | Sun | Message(s) in Farsi                                                          | USB | (AB)       |
| V32 | 8-3  | 1800 | 7910   | Sun | Iranian jammer. V32 on 7842 kHz                                              | AM  | (AB)       |
| V32 | 8-3  | 1800 | 7842   | Sun | Messages in Farsi                                                            | USB | (Lac)      |
| V32 | 9-3  | 0155 | 7910   | Mon | Iranian jammer aimed at V32                                                  | AM  | (AB)       |
| V32 | 9-3  | 0200 | 7842   | Mon | Message in Farsi (barely audible)                                            | USB | (AB)       |
| V32 | 9-3  | 1800 | 7842   | Mon | Several messages in Farsi                                                    | USB | (AB/Hiram) |
| V32 | 10-3 | 0200 | 7910   | Tue | Messages in Farsi                                                            | USB | (AB)       |
| V32 | 10-3 | 1800 | 7842   | Tue | Messages in Farsi                                                            | USB | (AB)       |
| V32 | 10-3 | 1800 | 7842   | Tue | Messages in Farsi                                                            | USB | (Lac)      |
| V32 | 11-3 | 0200 | 7842   | Wed | Messages in Farsi                                                            | USB | (AB)       |
| V32 | 11-3 | 1800 | 7842   | Wed | Message in Farsi                                                             | USB | (AB)       |
| V32 | 12-3 | 0200 | 7842   | Thu | Messages in Farsi                                                            | USB | (AB)       |
| V32 | 12-3 | 1800 | 7842   | Thu | Messages in Farsi                                                            | USB | (AB/Lac)   |
| V32 | 13-3 | 0200 | 7842   | Fri | Messages in Farsi                                                            | USB | (AB)       |
| V32 | 13-3 | 1800 | 7842   | Fri | Messages in Farsi                                                            | AM  | (AB/Lac)   |

|     |      |      |       |     |                                                                                                       |                 |                 |
|-----|------|------|-------|-----|-------------------------------------------------------------------------------------------------------|-----------------|-----------------|
| V32 | 14-3 | 0200 | 7842  | Sat | Messages in Farsi                                                                                     | USB             | (AB)            |
| V32 | 14-3 | 1800 | 7842  | Sat | Messages in Farsi                                                                                     | USB             | (AB/Lac)        |
| V32 | 15-3 | 0200 | 7842  | Sun | Messages in Farsi                                                                                     | USB             | (AB)            |
| V32 | 15-3 | 1800 | 7842  | Sun | Messages in Farsi                                                                                     | USB             | (AB/Lac)        |
| V32 | 16-3 | 0200 | 7842  | Mon | Message in Farsi (barely audible)                                                                     | USB             | (AB)            |
| V32 | 16-3 | 1800 | 7842  | Mon | Several messages in Farsi                                                                             | USB             | (AB/Lac)        |
| V32 | 17-3 | 0200 | 7842  | Tue | Messages in Farsi. Jammed by Iran. Jammer started at 0223z                                            | USB             | (AB)            |
| V32 | 17-3 | 1800 | 7842  | Tue | Messages in farsi jammed by Iran                                                                      | USB             | (AB/Lac)        |
| V32 | 18-3 | 0200 | 7842  | Wed | Not heard                                                                                             | USB             | (AB)            |
| V32 | 18-3 | 1800 | 7910  | Wed | Messages in Farsi                                                                                     | USB             | (AB/Lac)        |
| V32 | 19-3 | 0200 | 7910  | Thu | Messages in Farsi                                                                                     | USB             | (AB)            |
| V32 | 19-3 | 1800 | 7910  | Thu | Messages in Farsi                                                                                     | USB             | (AB/Hi-ram/Lac) |
| V32 | 20-3 | 0133 | 7910  | Fri | Iranian jammer. V32 not heard                                                                         | AM              | (AB)            |
| V32 | 20-3 | 1800 | 7910  | Fri | Messages in Farsi after 8 minutes jammed by Iran                                                      | USB             | (AB/Lac)        |
| V32 | 21-3 | 0200 | 7910  | Sat | Messages in Farsi. Iranian jammer at 0233z                                                            | USB             | (AB)            |
| V32 | 21-3 | 1800 | 7910  | Sat | Messages in Farsi jammed by Iran and by strong tones                                                  | USB             | (AB/Lac)        |
| V32 | 22-3 | 0200 | 7910  | Sun | Messages in Farsi jammed by tones and the Iranian jammer                                              | USB             | (AB)            |
| V32 | 22-3 | 1800 | 7910  | Sun | Messages in Farsi. Jammed by tones and the Iranian jammer                                             | USB             | (AB/Lac)        |
| V32 | 23-3 | 0200 | 7910  | Mon | Message in Farsi jammed by Iran and tones                                                             | USB             | (AB)            |
| V32 | 23-3 | 1800 | 7910  | Mon | Messages in Farsi. Iranian jammer started at 1743z on 7912 kHz, tones started at 1758z                | USB             | (AB)            |
| V32 | 24-3 | 0200 | 7910  | Tue | Messages in Farsi. Jammed by tones                                                                    | USB             | (AB)            |
| V32 | 24-3 | 1800 | 7910  | Tue | Messages in Farsi. Iranian jammer activated at 1744z on 7912 kHz                                      | USB             | (AB)            |
| V32 | 25-3 | 0200 | 7910  | Wed | Carriers and jammer present. Both weak. V32 not heard                                                 | USB             | (AB)            |
| V32 | 25-3 | 1800 | 7910  | Wed | Three carriers jammer. No V32 heard                                                                   | USB             | (AB)            |
| V32 | 26-3 | 0159 | 7910  | Thu | Three carriers jammer up till 0350z. V32 not heard                                                    | USB             | (AB)            |
| V32 | 26-3 | 1748 | 7910  | Thu | Iranian jammer (stopped at 1756z). tones jammer started at 1803z. V32 not heard, also not on 7842 kHz | USB             | (AB)            |
| V32 | 28-3 | 0153 | 7910  | Sat | Tones jammer active for 1h35m                                                                         | USB             | (AB)            |
| V32 | 28-3 | 1800 | 7910  | Sat | Tones jammer. No V32 broadcast                                                                        | USB             | (AB)            |
| V32 | 29-3 | 1800 | 7910  | Sun | Tones jammer. No V32 heard                                                                            | USB             | (AB)            |
| V32 | 30-3 | 0330 | 7910  | Mon | Message in Farsi                                                                                      | USB             | (AB)            |
| V32 | 30-3 | 1944 | 7910  | Mon | i.p. Messages in Farsi                                                                                | USB             | (AB)            |
| V32 | 31-3 | 0200 | 7910  | Tue | Messages in Farsi                                                                                     | USB             | (AB)            |
| V32 | 31-3 | 1918 | 7910  | Tue | Messages in Farsi i.p.                                                                                | USB             | (AB)            |
| X-- | 3-3  | 1230 | 20854 | Tue | Russian intel.                                                                                        | MFSK-21/MFSK-13 | (AB)            |
| X-- | 3-3  | 1234 | 19628 | Tue | Russian intel.                                                                                        | MFSK-21/MFSK-13 | (AB)            |
| X-- | 4-3  | 1406 | 18564 | Wed | Russian intel.                                                                                        | MFSK-21/MFSK-13 | (AB)            |
| X-- | 4-3  | 1442 | 15834 | Wed | Russian intel.                                                                                        | MFSK-21/MFSK-13 | (AB)            |
| X-- | 5-3  | 0815 | 16329 | Thu | Russian intel.                                                                                        | MFSK-21/MFSK-13 | (EW)            |
| X-- | 5-3  | 1404 | 9956  | Thu | Russian intel.                                                                                        | MFSK-21/MFSK-13 | (AB)            |
| X-- | 6-3  | 0742 | 19854 | Fri | Russian intel.                                                                                        | MFSK-21/MFSK-13 | (AB)            |
| X-- | 6-3  | 0744 | 18564 | Fri | Russian intel.                                                                                        | MFSK-21/MFSK-13 | (AB)            |
| X-- | 6-3  | 0748 | 16256 | Fri | Russian intel.                                                                                        | MFSK-21/MFSK-13 | (AB)            |
| X-- | 6-3  | 0751 | 15624 | Fri | Russian intel. Switched to DSB halfway the message                                                    | MFSK-21/MFSK-13 | (AB)            |
| X-- | 6-3  | 1016 | 17425 | Fri | Russian intel.                                                                                        | MFSK-21/MFSK-13 | (AB)            |
| X-- | 6-3  | 1021 | 13392 | Fri | Russian intel.                                                                                        | MFSK-21/MFSK-13 | (AB)            |

|     |      |      |       |     |                                                                   |                 |           |
|-----|------|------|-------|-----|-------------------------------------------------------------------|-----------------|-----------|
| X-- | 9-3  | 1351 | 16256 | Mon | Russian intel.                                                    | MFSK-21/MFSK-13 | (AB)      |
| X-- | 10-3 | 0915 | 18032 | Tue | Russian intel.                                                    | MFSK-21/MFSK-13 | (AB)      |
| X-- | 11-3 | 1307 | 15785 | Wed | Russian intel.                                                    | MFSK-21/MFSK-13 | (AB)      |
| X-- | 13-3 | 1243 | 18922 | Fri | Russian intel.                                                    | MFSK-21/MFSK-13 | (AB)      |
| X-- | 13-3 | 1247 | 17427 | Fri | Russian intel.                                                    | MFSK-21/MFSK-13 | (AB)      |
| X-- | 13-3 | 1251 | 15625 | Fri | Russian intel.                                                    | MFSK-21/MFSK-13 | (AB)      |
| X-- | 13-3 | 1254 | 13391 | Fri | Russian intel.                                                    | MFSK-21/MFSK-13 | (AB)      |
| X-- | 17-3 | 0742 | 17432 | Tue | Russian intel.                                                    | MFSK-12/MFSK-13 | (AB)      |
| X-- | 17-3 | 0747 | 16154 | Tue | Russian intel.                                                    | MFSK-12/MFSK-13 | (AB)      |
| X-- | 17-3 | 0900 | 20161 | Tue | Russian intel.                                                    | MFSK-12/MFSK-13 | (AB)      |
| X-- | 17-3 | 0903 | 19083 | Tue | Russian intel.                                                    | MFSK-12/MFSK-13 | (AB)      |
| X-- | 17-3 | 0910 | 15674 | Tue | Russian intel.                                                    | MFSK-12/MFSK-13 | (AB)      |
| X-- | 17-3 | 0913 | 13837 | Tue | Russian intel.                                                    | MFSK-12/MFSK-13 | (AB)      |
| X-- | 20-3 | 1333 | 18648 | Fri | Russian intel.                                                    | MFSK-21/MFSK-13 | (AB)      |
| X-- | 20-3 | 1337 | 17423 | Fri | Russian intel.                                                    | MFSK-21/MFSK-13 | (AB)      |
| X-- | 27-3 | 0837 | 18446 | Fri | Russian intel.                                                    | MFSK-21/MFSK-13 | (AB)      |
| X-- | 27-3 | 0909 | 17425 | Fri | Russian intel.                                                    | MFSK-21/MFSK-13 | (AB)      |
| X-- | 27-3 | 0912 | 15623 | Fri | Russian intel.                                                    | MFSK-21/MFSK-13 | (AB)      |
| X-- | 27-3 | 0915 | 13392 | Fri | Russian intel.                                                    | MFSK-21/MFSK-13 | (AB)      |
| X-- | 27-3 | 0938 | 17515 | Fri | Russian intel.                                                    | MFSK-21/MFSK-13 | (AB)      |
| X-- | 27-3 | 0942 | 15735 | Fri | Russian intel.                                                    | MFSK-21/MFSK-13 | (AB)      |
| X-- | 31-3 | 1255 | 11425 | Tue | Russian intel.                                                    | MFSK-21/MFSK-13 | (AB)      |
| X06 | 3-3  | 0750 | 15989 | Tue | MFA Moscow clg 125643: Russian embassy Ulaanbaatar                | MFSK-6          | (Moon)    |
| X06 | 3-3  | 0838 | 17454 | Tue | MFA Moscow clg 325614: Russian embassy Nairobi                    | MFSK-6          | (Moon)    |
| X06 | 4-3  | 0750 | 15819 | Wed | MFA Moscow clg 256341: Russian embassy Beirut                     | MFSK-6          | (Moon)    |
| X06 | 4-3  | 1220 | 20374 | Wed | MFA Moscow clg 231654: Russian embassy Abuja                      | MFSK-6          | (AB)      |
| X06 | 5-3  | 0826 | 13448 | Thu | MFA Moscow clg 162543: Russian embassy Nicosia                    | MFSK-6          | (Moon)    |
| X06 | 6-3  | 0928 | 14570 | Fri | MFA Moscow clg 324615: Russian embassy Madrid                     | MFSK-6          | (AB)      |
| X06 | 10-3 | 0806 | 16257 | Tue | MFA Moscow clg 542136: Russian embassy Beijing                    | MFSK-6          | (AB/Moon) |
| X06 | 10-3 | 0821 | 13420 | Tue | MFA Moscow clg 534216: Russian embassy Baghdad                    | MFSK-6          | (Moon)    |
| X06 | 10-3 | 0830 | 11545 | Tue | MFA Moscow clg 534216: Russian embassy Baghdad                    | MFSK-6          | (Moon)    |
| X06 | 10-3 | 1001 | 17470 | Tue | MFA Moscow clg 216354: Russian Consulate General Chennai          | MFSK-6          | (AB/Moon) |
| X06 | 10-3 | 1617 | 16117 | Tue | MFA Moscow clg 643125: Russian embassy Rabat                      | MFSK-6          | (T101)    |
| X06 | 13-3 | 0956 | 16117 | Fri | MFA Moscow clg 463125: Russian embassy Rabat                      | MFSK-6          | (AB)      |
| X06 | 16-3 | 0752 | 19858 | Mon | MFA Moscow clg 351264: Russian embassy Abu Dhabi                  | MFSK-6          | (Moon)    |
| X06 | 16-3 | 0830 | 14377 | Mon | MFA Moscow clg 432516: Russian embassy Bern                       | MFSK-6          | (AB/RO)   |
| X06 | 16-3 | 0900 | 12199 | Mon | MFA Moscow clg 532614: Russian embassy Paris                      | MFSK-6          | (RO)      |
| X06 | 17-3 | 0742 | 14615 | Tue | MFA Moscow clg 125643: Russian embassy Ulaanbataar                | MFSK-6          | (AB)      |
| X06 | 18-3 | 0736 | 14405 | Wed | MFA Moscow clg 256341: Russian embassy Beirut                     | MFSK-6          | (AB/RO)   |
| X06 | 19-3 | 0935 | 16103 | Thu | MFA Moscow clg 645321: Russian Consulate General Ho Chi Minh City | MFSK-6          | (Moon)    |
| X06 | 20-3 | 1019 | 14824 | Fri | MFA Moscow clg 521634: Russian embassy Tel Aviv                   | MFSK-6          | (Moon)    |
| X06 | 23-3 | 0808 | 14871 | Mon | MFA Moscow clg 156234: Russian embassy Kampala                    | MFSK-6          | (Moon)    |
| X06 | 24-3 | 1030 | 17470 | Tue | MFA Moscow clg 216354: Russian Consulate General Chennai          | MFSK-6          | (Moon)    |
| X06 | 25-3 | 0743 | 20334 | Wed | MFA Moscow clg 164253: Russian embassy Addis Ababa                | MFSK-6          | (Moon)    |
| X06 | 26-3 | 0751 | 14419 | Thu | MFA Moscow clg 521634: Russian embassy Bucharest                  | MFSK-6          | (AB)      |
| X06 | 26-3 | 0805 | 14450 | Thu | MFA Moscow clg 153624: Russian embassy Damascus                   | MFSK-6          | (AB)      |
| X06 | 26-3 | 0816 | 16153 | Thu | MFA Moscow clg 153624: Russian embassy Damascus                   | MFSK-6          | (AB)      |

|      |      |      |       |     |                                                       |              |      |
|------|------|------|-------|-----|-------------------------------------------------------|--------------|------|
| X06  | 27-3 | 0737 | 14695 | Fri | MFA Moscow clg 341265 Unid                            | MFSK-6       | (AB) |
| X06  | 27-3 | 0926 | 10653 | Fri | MFA Moscow clg 356412: Russian embassy Berlin         | MFSK-6       | (AB) |
| XPA1 | 4-3  | 1310 | 14451 | Wed | 441 441 441 1 07196 00445 73400 ... 00247 08489 22335 | MFSK-20/10Bd | (AB) |
| XPA1 | 4-3  | 1330 | 13451 | Wed | 441 441 441 1 07196 00445 73400 ... 00247 08489 22335 | MFSK-20/10Bd | (AB) |
| XPA1 | 4-3  | 1350 | 12151 | Wed | 441 441 441 1 07196 00445 73400 ... 00247 08489 22335 | MFSK-20/10Bd | (AB) |
| XPA1 | 6-3  | 1310 | 14451 | Fri | 441 441 441 1 07196 00445 73400 ... 00247 08489 22335 | MFSK-20/10Bd | (AB) |
| XPA1 | 6-3  | 1330 | 13451 | Fri | 441 441 441 1 07196 00445 73400 ... 00247 08489 22335 | MFSK-20/10Bd | (AB) |
| XPA1 | 6-3  | 1350 | 12151 | Fri | 441 441 441 1 07196 00445 73400 ... 00247 08489 22335 | MFSK-20/10Bd | (AB) |
| XPA1 | 11-3 | 1310 | 14451 | Wed | 441 441 441 1 07464 00386 22506... 13779 74549 54525  | MFSK-20/10Bd | (AB) |
| XPA1 | 11-3 | 1330 | 13451 | Wed | 441 441 441 1 07464 00386 22506... 13779 74549 54525  | MFSK-20/10Bd | (AB) |
| XPA1 | 11-3 | 1350 | 12151 | Wed | 441 441 441 1 07464 00386 22506... 13779 74549 54525  | MFSK-20/10Bd | (AB) |
| XPA1 | 13-3 | 1310 | 14451 | Fri | 441 441 441 1 07464 00386 22506... 13779 74549 54525  | MFSK-20/10Bd | (AB) |
| XPA1 | 13-3 | 1330 | 13451 | Fri | 441 441 441 1 07464 00386 22506... 13779 74549 54525  | MFSK-20/10Bd | (AB) |
| XPA1 | 13-3 | 1350 | 12151 | Fri | 441 441 441 1 07464 00386 22506... 13779 74549 54525  | MFSK-20/10Bd | (AB) |
| XPA1 | 18-3 | 1310 | 14451 | Wed | 441 441 441 1 07464 00386 22506... 13779 74549 54525  | MFSK-20/10Bd | (AB) |
| XPA1 | 18-3 | 1330 | 13451 | Wed | 441 441 441 1 07464 00386 22506... 13779 74549 54525  | MFSK-20/10Bd | (AB) |
| XPA1 | 18-3 | 1350 | 12151 | Wed | 441 441 441 1 07464 00386 22506... 13779 74549 54525  | MFSK-20/10Bd | (AB) |
| XPA1 | 20-3 | 1310 | 14451 | Fri | 441 441 441 1 07464 00386 22506... 13779 74549 54525  | MFSK-20/10Bd | (AB) |
| XPA1 | 20-3 | 1330 | 13451 | Fri | 441 441 441 1 07464 00386 22506... 13779 74549 54525  | MFSK-20/10Bd | (AB) |
| XPA1 | 20-3 | 1350 | 12151 | Fri | 441 441 441 1 07464 00386 22506... 13779 74549 54525  | MFSK-20/10Bd | (AB) |
| XPA1 | 25-3 | 1310 | 14451 | Wed | 441 441 441 000 03045 00001 00000 10140               | MFSK-20/10Bd | (AB) |
| XPA1 | 25-3 | 1330 | 13451 | Wed | 441 441 441 000 03045 00001 00000 10140               | MFSK-20/10Bd | (AB) |
| XPA1 | 25-3 | 1350 | 12151 | Wed | 441 441 441 000 03045 00001 00000 10140               | MFSK-20/10Bd | (AB) |
| XPA1 | 27-3 | 1310 | 14451 | Fri | 441 441 441 000 07536 00001 00000 10140               | MFSK-20/10Bd | (AB) |
| XPA1 | 27-3 | 1330 | 13451 | Fri | 441 441 441 000 07536 00001 00000 10140               | MFSK-20/10Bd | (AB) |
| XPA1 | 27-3 | 1350 | 12151 | Fri | 441 441 441 000 07536 00001 00000 10140               | MFSK-20/10Bd | (AB) |
| XPA2 | 2-3  | 0800 | 13931 | Mon | 04153 00001 00000 33261                               | MFSK-16/20Bd | (AB) |
| XPA2 | 2-3  | 0820 | 14831 | Mon | 04153 00001 00000 33261                               | MFSK-16/20Bd | (AB) |
| XPA2 | 2-3  | 0840 | 16131 | Mon | 04153 00001 00000 33261                               | MFSK-16/20Bd | (AB) |
| XPA2 | 2-3  | 0910 | 19456 | Mon | 02781 00080 38804 ... 46224 63100 41333               | MFSK-16/20Bd | (PY) |
| XPA2 | 2-3  | 0930 | 18385 | Mon | 02781 00080 38804 ... 46224 63100 41333               | MFSK-16/20Bd | (PY) |
| XPA2 | 2-3  | 0950 | 17451 | Mon | 02781 00080 38804 ... 46224 63100 41333               | MFSK-16/20Bd | (PY) |
| XPA2 | 2-3  | 1600 | 12163 | Mon | 07268 00001 00000 36265                               | MFSK-16/20Bd | (AB) |
| XPA2 | 2-3  | 1620 | 10863 | Mon | 07268 00001 00000 36265                               | MFSK-16/20Bd | (AB) |
| XPA2 | 2-3  | 1640 | 9363  | Mon | 07268 00001 00000 36265                               | MFSK-16/20Bd | (AB) |
| XPA2 | 3-3  | 1100 | 14639 | Tue | 09206 00200 32867 ... 86858 32025 60266               | MFSK-16/20Bd | (AB) |
| XPA2 | 3-3  | 1120 | 13539 | Tue | 09206 00200 32867 ... 86858 32025 60266               | MFSK-16/20Bd | (AB) |
| XPA2 | 3-3  | 1140 | 12139 | Tue | 09206 00200 32867 ... 86858 32025 60266               | MFSK-16/20Bd | (AB) |
| XPA2 | 3-3  | 1700 | 17464 | Tue | 07455 00001 00000 35664                               | MFSK-16/20Bd | (AB) |
| XPA2 | 3-3  | 1720 | 16203 | Tue | 07455 00001 00000 35664                               | MFSK-16/20Bd | (AB) |
| XPA2 | 3-3  | 1740 | 13931 | Tue | 07455 00001 00000 35664                               | MFSK-16/20Bd | (AB) |
| XPA2 | 4-3  | 0800 | 13931 | Wed | 09136 00001 00000 34664                               | MFSK-16/20Bd | (AB) |
| XPA2 | 4-3  | 0820 | 14831 | Wed | 09136 00001 00000 34664                               | MFSK-16/20Bd | (AB) |
| XPA2 | 4-3  | 0840 | 16131 | Wed | 09136 00001 00000 34664                               | MFSK-16/20Bd | (AB) |
| XPA2 | 4-3  | 0910 | 19456 | Wed | 02781 00080 38804 ... 46224 63100 41333               | MFSK-16/20Bd | (AB) |
| XPA2 | 4-3  | 0930 | 18385 | Wed | 02781 00080 38804 ... 46224 63100 41333               | MFSK-16/20Bd | (AB) |
| XPA2 | 4-3  | 0950 | 17451 | Wed | 02781 00080 38804 ... 46224 63100 41333               | MFSK-16/20Bd | (AB) |

|      |      |      |       |     |                                         |              |            |
|------|------|------|-------|-----|-----------------------------------------|--------------|------------|
| XPA2 | 4-3  | 1100 | 15861 | Wed | 00897 00190 05468 ... 58511 30682 33354 | MFSK-16/20Bd | (AB)       |
| XPA2 | 4-3  | 1120 | 14431 | Wed | 00897 00190 05468 ... 58511 30682 33354 | MFSK-16/20Bd | (AB)       |
| XPA2 | 4-3  | 1140 | 13431 | Wed | 00897 00190 05468 ... 58511 30682 33354 | MFSK-16/20Bd | (AB)       |
| XPA2 | 4-3  | 1200 | 14956 | Wed | 02915 00179 61717 ,, 44355 29310 57401  | MFSK-16/20Bd | (AB)       |
| XPA2 | 4-3  | 1220 | 16356 | Wed | 02915 00179 61717 ,, 44355 29310 57401  | MFSK-16/20Bd | (AB)       |
| XPA2 | 4-3  | 1240 | 17456 | Wed | 02915 00179 61717 ,, 44355 29310 57401  | MFSK-16/20Bd | (AB)       |
| XPA2 | 5-3  | 0900 | 19426 | Thu | 08145 00001 00000 10140                 | MFSK-16/20Bd | (AB/PY)    |
| XPA2 | 5-3  | 0920 | 18543 | Thu | 08145 00001 00000 10140                 | MFSK-16/20Bd | (AB/PY)    |
| XPA2 | 5-3  | 0940 | 17478 | Thu | 08145 00001 00000 10140                 | MFSK-16/20Bd | (AB/PY)    |
| XPA2 | 5-3  | 1100 | 15861 | Thu | 00897 00190 05468 ... 58511 30682 33354 | MFSK-16/20Bd | (AB)       |
| XPA2 | 5-3  | 1120 | 14431 | Thu | 00897 00190 05468 ... 58511 30682 33354 | MFSK-16/20Bd | (AB)       |
| XPA2 | 5-3  | 1140 | 13431 | Thu | 00897 00190 05468 ... 58511 30682 33354 | MFSK-16/20Bd | (AB)       |
| XPA2 | 5-3  | 1700 | 17464 | Thu | 05147 00001 00000 35261                 | MFSK-16/20Bd | (AB)       |
| XPA2 | 5-3  | 1720 | 16203 | Thu | 05147 00001 00000 35261                 | MFSK-16/20Bd | (AB)       |
| XPA2 | 5-3  | 1740 | 13931 | Thu | 05147 00001 00000 35261                 | MFSK-16/20Bd | (AB)       |
| XPA2 | 6-3  | 1100 | 14639 | Fri | 09206 00200 32867 ... 86858 32025 60266 | MFSK-16/20Bd | (AB/Hiram) |
| XPA2 | 6-3  | 1120 | 13539 | Fri | 09206 00200 32867 ... 86858 32025 60266 | MFSK-16/20Bd | (AB)       |
| XPA2 | 6-3  | 1140 | 12139 | Fri | 09206 00200 32867 ... 86858 32025 60266 | MFSK-16/20Bd | (AB)       |
| XPA2 | 6-3  | 1200 | 14956 | Fri | 02915 00179 61717 ,, 44355 29310 57401  | MFSK-16/20Bd | (AB)       |
| XPA2 | 6-3  | 1220 | 16356 | Fri | 02915 00179 61717 ,, 44355 29310 57401  | MFSK-16/20Bd | (AB)       |
| XPA2 | 6-3  | 1240 | 17456 | Fri | 02915 00179 61717 ,, 44355 29310 57401  | MFSK-16/20Bd | (AB)       |
| XPA2 | 7-3  | 0900 | 19426 | Sat | 02660 00001 00000 00140                 | MFSK-16/20Bd | (AB)       |
| XPA2 | 7-3  | 0920 | 18543 | Sat | 02660 00001 00000 00140                 | MFSK-16/20Bd | (AB)       |
| XPA2 | 7-3  | 0940 | 17478 | Sat | 02660 00001 00000 00140                 | MFSK-16/20Bd | (AB)       |
| XPA2 | 7-3  | 1600 | 12163 | Sat | 03527 00001 00000 37255                 | MFSK-16/20Bd | (AB)       |
| XPA2 | 7-3  | 1620 | 10863 | Sat | 03527 00001 00000 37255                 | MFSK-16/20Bd | (AB)       |
| XPA2 | 7-3  | 1640 | 9363  | Sat | 03527 00001 00000 37255                 | MFSK-16/20Bd | (AB)       |
| XPA2 | 9-3  | 0800 | 17459 | Mon | 03120 00348 30157 ... 56012 50796 62460 | MFSK-16/20Bd | (PY)       |
| XPA2 | 9-3  | 0820 | 18578 | Mon | 03120 00348 30157 ... 56012 50796 62460 | MFSK-16/20Bd | (PY)       |
| XPA2 | 9-3  | 0910 | 19456 | Mon | 04425 00001 00000 10140                 | MFSK-16/20Bd | (AB)       |
| XPA2 | 9-3  | 0930 | 18385 | Mon | 04425 00001 00000 10140                 | MFSK-16/20Bd | (AB)       |
| XPA2 | 9-3  | 0950 | 17451 | Mon | 04425 00001 00000 10140                 | MFSK-16/20Bd | (AB)       |
| XPA2 | 9-3  | 1600 | 12163 | Mon | 01922 00099 31062 ... 16727 50873 36330 | MFSK-16/20Bd | (AB)       |
| XPA2 | 9-3  | 1620 | 10863 | Mon | 01922 00099 31062 ... 16727 50873 36330 | MFSK-16/20Bd | (AB)       |
| XPA2 | 9-3  | 1640 | 9363  | Mon | 01922 00099 31062 ... 16727 50873 36330 | MFSK-16/20Bd | (AB)       |
| XPA2 | 10-3 | 1100 | 14639 | Tue | 09161 00001 00000 00140                 | MFSK-16/20Bd | (AB)       |
| XPA2 | 10-3 | 1120 | 13539 | Tue | 09161 00001 00000 00140                 | MFSK-16/20Bd | (AB)       |
| XPA2 | 10-3 | 1140 | 12139 | Tue | 09161 00001 00000 00140                 | MFSK-16/20Bd | (AB)       |
| XPA2 | 10-3 | 1700 | 17464 | Tue | 00382 00185 08758 ... 68914 06306 30345 | MFSK-16/20Bd | (AB)       |
| XPA2 | 10-3 | 1720 | 16203 | Tue | 00382 00185 08758 ... 68914 06306 30345 | MFSK-16/20Bd | (AB)       |
| XPA2 | 10-3 | 1740 | 13931 | Tue | 00382 00185 08758 ... 68914 06306 30345 | MFSK-16/20Bd | (AB)       |
| XPA2 | 11-3 | 0800 | 17459 | Wed | 03120 00348 30157 ... 56012 50796 62460 | MFSK-16/20Bd | (AB/PY)    |
| XPA2 | 11-3 | 0820 | 18578 | Wed | 03120 00348 30157 ... 56012 50796 62460 | MFSK-16/20Bd | (AB/PY)    |
| XPA2 | 11-3 | 0840 | 19101 | Wed | 03120 00348 30157 ... 56012 50796 62460 | MFSK-16/20Bd | (AB/PY)    |
| XPA2 | 11-3 | 0910 | 19456 | Wed | 05399 00001 00000 10140                 | MFSK-16/20Bd | (AB)       |
| XPA2 | 11-3 | 0930 | 18385 | Wed | 05399 00001 00000 10140                 | MFSK-16/20Bd | (AB)       |
| XPA2 | 11-3 | 0950 | 17451 | Wed | 05399 00001 00000 10140                 | MFSK-16/20Bd | (AB)       |

|      |      |      |       |     |                                         |              |            |
|------|------|------|-------|-----|-----------------------------------------|--------------|------------|
| XPA2 | 11-3 | 1100 | 15861 | Wed | 00897 00190 05468 ... 58511 30682 33354 | MFSK-16/20Bd | (AB)       |
| XPA2 | 11-3 | 1120 | 14431 | Wed | 00897 00190 05468 ... 58511 30682 33354 | MFSK-16/20Bd | (AB)       |
| XPA2 | 11-3 | 1140 | 13431 | Wed | 00897 00190 05468 ... 58511 30682 33354 | MFSK-16/20Bd | (AB)       |
| XPA2 | 11-3 | 1200 | 14956 | Wed | 08251 00246 86376 ... 73670 47040 54376 | MFSK-16/20Bd | (AB)       |
| XPA2 | 11-3 | 1220 | 16356 | Wed | 08251 00246 86376 ... 73670 47040 54376 | MFSK-16/20Bd | (AB)       |
| XPA2 | 11-3 | 1240 | 17456 | Wed | 08251 00246 86376 ... 73670 47040 54376 | MFSK-16/20Bd | (AB)       |
| XPA2 | 12-3 | 0900 | 19426 | Thu | 00966 00172 86395 ... 68216 91445 72736 | MFSK-16/20Bd | (AB)       |
| XPA2 | 12-3 | 0920 | 18543 | Thu | 00966 00172 86395 ... 68216 91445 72736 | MFSK-16/20Bd | (AB)       |
| XPA2 | 12-3 | 0940 | 17478 | Thu | 00966 00172 86395 ... 68216 91445 72736 | MFSK-16/20Bd | (AB)       |
| XPA2 | 12-3 | 1100 | 15861 | Thu | 00897 00190 05468 ... 58511 30682 33354 | MFSK-16/20Bd | (AB)       |
| XPA2 | 12-3 | 1120 | 14431 | Thu | 00897 00190 05468 ... 58511 30682 33354 | MFSK-16/20Bd | (AB)       |
| XPA2 | 12-3 | 1140 | 13431 | Thu | 00897 00190 05468 ... 58511 30682 33354 | MFSK-16/20Bd | (AB)       |
| XPA2 | 12-3 | 1700 | 17464 | Thu | 00382 00185 08758 ... 68914 06306 30345 | MFSK-16/20Bd | (AB)       |
| XPA2 | 12-3 | 1720 | 16203 | Thu | 00382 00185 08758 ... 68914 06306 30345 | MFSK-16/20Bd | (AB)       |
| XPA2 | 12-3 | 1740 | 13931 | Thu | 00382 00185 08758 ... 68914 06306 30345 | MFSK-16/20Bd | (AB)       |
| XPA2 | 13-3 | 1100 | 14639 | Fri | 09764 00001 00000 10140                 | MFSK-16/20Bd | (AB)       |
| XPA2 | 13-3 | 1120 | 13539 | Fri | 09764 00001 00000 10140                 | MFSK-16/20Bd | (AB)       |
| XPA2 | 13-3 | 1140 | 12139 | Fri | 09764 00001 00000 10140                 | MFSK-16/20Bd | (AB)       |
| XPA2 | 13-3 | 1200 | 14956 | Fri | 08251 00246 86376 ... 73670 47040 54376 | MFSK-16/20Bd | (AB)       |
| XPA2 | 13-3 | 1220 | 16356 | Fri | 08251 00246 86376 ... 73670 47040 54376 | MFSK-16/20Bd | (AB)       |
| XPA2 | 13-3 | 1240 | 17456 | Fri | 08251 00246 86376 ... 73670 47040 54376 | MFSK-16/20Bd | (AB)       |
| XPA2 | 14-3 | 0900 | 19426 | Sat | 00966 00172 86395 ... 68216 91445 72736 | MFSK-16/20Bd | (AB-GRC)   |
| XPA2 | 14-3 | 0920 | 18543 | Sat | 00966 00172 86395 ... 68216 91445 72736 | MFSK-16/20Bd | (AB-GRC)   |
| XPA2 | 14-3 | 0940 | 17478 | Sat | 00966 00172 86395 ... 68216 91445 72736 | MFSK-16/20Bd | (AB-GRC)   |
| XPA2 | 14-3 | 1600 | 12163 | Sat | 01922 00099 31062 ... 16727 50873 36330 | MFSK-16/20Bd | (AB)       |
| XPA2 | 14-3 | 1620 | 10863 | Sat | 01922 00099 31062 ... 16727 50873 36330 | MFSK-16/20Bd | (AB)       |
| XPA2 | 14-3 | 1640 | 9363  | Sat | 01922 00099 31062 ... 16727 50873 36330 | MFSK-16/20Bd | (AB)       |
| XPA2 | 16-3 | 0800 | 17459 | Mon | 03120 00348 30157 ... 56012 50796 62460 | MFSK-16/20Bd | (AB-POL)   |
| XPA2 | 16-3 | 0820 | 18578 | Mon | 03120 00348 30157 ... 56012 50796 62460 | MFSK-16/20Bd | (AB-FIN)   |
| XPA2 | 16-3 | 0840 | 19101 | Mon | 03120 00348 30157 ... 56012 50796 62460 | MFSK-16/20Bd | (AB-POL)   |
| XPA2 | 16-3 | 0910 | 19456 | Mon | 08392 00070 40060 ... 31572 24395 47776 | MFSK-16/20Bd | (AB-GRC)   |
| XPA2 | 16-3 | 0930 | 18385 | Mon | 08392 00070 40060 ... 31572 24395 47776 | MFSK-16/20Bd | (AB-GRC)   |
| XPA2 | 16-3 | 0950 | 17451 | Mon | 08392 00070 40060 ... 31572 24395 47776 | MFSK-16/20Bd | (AB-GRC)   |
| XPA2 | 16-3 | 1600 | 12163 | Mon | 03700 00001 00000 34653                 | MFSK-16/20Bd | (AB)       |
| XPA2 | 16-3 | 1620 | 10863 | Mon | 03700 00001 00000 34653                 | MFSK-16/20Bd | (AB)       |
| XPA2 | 16-3 | 1640 | 9363  | Mon | 03700 00001 00000 34653                 | MFSK-16/20Bd | (AB)       |
| XPA2 | 17-3 | 1100 | 14639 | Tue | 07235 00001 00000 10140                 | MFSK-16/20Bd | (AB)       |
| XPA2 | 17-3 | 1120 | 13539 | Tue | 07235 00001 00000 10140                 | MFSK-16/20Bd | (AB)       |
| XPA2 | 17-3 | 1140 | 12139 | Tue | 07235 00001 00000 10140                 | MFSK-16/20Bd | (AB/Hiram) |
| XPA2 | 17-3 | 1700 | 17464 | Tue | 01156 00001 00000 34656                 | MFSK-16/20Bd | (AB)       |
| XPA2 | 17-3 | 1720 | 16203 | Tue | 01156 00001 00000 34656                 | MFSK-16/20Bd | (AB)       |
| XPA2 | 17-3 | 1740 | 13931 | Tue | 01156 00001 00000 34656                 | MFSK-16/20Bd | (AB)       |
| XPA2 | 18-3 | 0800 | 17459 | Wed | 03120 00348 30157 ... 56012 50796 62460 | MFSK-16/20Bd | (AB)       |
| XPA2 | 18-3 | 0820 | 18578 | Wed | 03120 00348 30157 ... 56012 50796 62460 | MFSK-16/20Bd | (AB)       |
| XPA2 | 18-3 | 0840 | 19101 | Wed | 03120 00348 30157 ... 56012 50796 62460 | MFSK-16/20Bd | (AB)       |
| XPA2 | 18-3 | 0910 | 19456 | Wed | 08392 00070 40060 ... 31572 24395 47776 | MFSK-16/20Bd | (AB)       |
| XPA2 | 18-3 | 0930 | 18385 | Wed | 08392 00070 40060 ... 31572 24395 47776 | MFSK-16/20Bd | (AB)       |



|      |      |      |       |     |                                         |              |             |
|------|------|------|-------|-----|-----------------------------------------|--------------|-------------|
| XPA2 | 18-3 | 0950 | 17451 | Wed | 08392 00070 40060 ... 31572 24395 47776 | MFSK-16/20Bd | (AB)        |
| XPA2 | 18-3 | 1100 | 15861 | Wed | 07828 00001 00000 00140                 | MFSK-16/20Bd | (AB/Hiram)  |
| XPA2 | 18-3 | 1120 | 14431 | Wed | 07828 00001 00000 00140                 | MFSK-16/20Bd | (AB)        |
| XPA2 | 18-3 | 1140 | 13431 | Wed | 07828 00001 00000 00140                 | MFSK-16/20Bd | (AB)        |
| XPA2 | 18-3 | 1200 | 14956 | Wed | 08261 00212 52731 ... 00816 20299 21334 | MFSK-16/20Bd | (AB)        |
| XPA2 | 18-3 | 1220 | 16356 | Wed | 08261 00212 52731 ... 00816 20299 21334 | MFSK-16/20Bd | (AB)        |
| XPA2 | 18-3 | 1240 | 17456 | Wed | 08261 00212 52731 ... 00816 20299 21334 | MFSK-16/20Bd | (AB)        |
| XPA2 | 19-3 | 0900 | 19426 | Thu | 02429 00001 000 00140                   | MFSK-16/20Bd | (AB)        |
| XPA2 | 19-3 | 0920 | 18543 | Thu | 02429 00001 000 00140                   | MFSK-16/20Bd | (AB)        |
| XPA2 | 19-3 | 0940 | 17478 | Thu | 02429 00001 000 00140                   | MFSK-16/20Bd | (AB)        |
| XPA2 | 19-3 | 1100 | 15861 | Thu | 07428 00001 00000 10140                 | MFSK-16/20Bd | (AB)        |
| XPA2 | 19-3 | 1120 | 14431 | Thu | 07428 00001 00000 10140                 | MFSK-16/20Bd | (AB)        |
| XPA2 | 19-3 | 1140 | 13431 | Thu | 07428 00001 00000 10140                 | MFSK-16/20Bd | (AB)        |
| XPA2 | 19-3 | 1700 | 17464 | Thu | 08506 00001 00000 36660                 | MFSK-16/20Bd | (AB)        |
| XPA2 | 19-3 | 1720 | 16203 | Thu | 08506 00001 00000 36660                 | MFSK-16/20Bd | (AB)        |
| XPA2 | 19-3 | 1740 | 13931 | Thu | 08506 00001 00000 36660                 | MFSK-16/20Bd | (AB)        |
| XPA2 | 20-3 | 1100 | 14639 | Fri | 06622 00001 00000 10140                 | MFSK-16/20Bd | (AB)        |
| XPA2 | 20-3 | 1120 | 13539 | Fri | 06622 00001 00000 10140                 | MFSK-16/20Bd | (AB)        |
| XPA2 | 20-3 | 1140 | 12139 | Fri | 06622 00001 00000 10140                 | MFSK-16/20Bd | (AB)        |
| XPA2 | 20-3 | 1200 | 14956 | Fri | 08261 00212 52731 ... 00816 20299 21334 | MFSK-16/20Bd | (AB)        |
| XPA2 | 20-3 | 1220 | 16356 | Fri | 08261 00212 52731 ... 00816 20299 21334 | MFSK-16/20Bd | (AB)        |
| XPA2 | 20-3 | 1240 | 17456 | Fri | 08261 00212 52731 ... 00816 20299 21334 | MFSK-16/20Bd | (AB)        |
| XPA2 | 21-3 | 0900 | 19426 | Sat | 03432 00001 00000 10140                 | MFSK-16/20Bd | (AB-GRC)    |
| XPA2 | 21-3 | 0920 | 18543 | Sat | 03432 00001 00000 10140                 | MFSK-16/20Bd | (AB-GRC)    |
| XPA2 | 21-3 | 0940 | 17478 | Sat | 03432 00001 00000 10140                 | MFSK-16/20Bd | (AB-GRC)    |
| XPA2 | 21-3 | 1600 | 12163 | Sat | 09204 00001 00000 34261                 | MFSK-16/20Bd | (AB)        |
| XPA2 | 21-3 | 1620 | 10863 | Sat | 09204 00001 00000 34261                 | MFSK-16/20Bd | (AB)        |
| XPA2 | 21-3 | 1640 | 9363  | Sat | 09204 00001 00000 34261                 | MFSK-16/20Bd | (AB)        |
| XPA2 | 23-3 | 0800 | 17459 | Mon | 00444 00415 39816 ... 39664 82576 30430 | MFSK-16/20Bd | (AB-GRC)    |
| XPA2 | 23-3 | 0820 | 18578 | Mon | 00444 00415 39816 ... 39664 82576 30430 | MFSK-16/20Bd | (AB-GRC)    |
| XPA2 | 23-3 | 0840 | 19101 | Mon | 00444 00415 39816 ... 39664 82576 30430 | MFSK-16/20Bd | (AB-GRC)    |
| XPA2 | 23-3 | 0910 | 19456 | Mon | 09842 00100 36684 ... 95662 94776 36646 | MFSK-16/20Bd | (AB-GRC)    |
| XPA2 | 23-3 | 0930 | 18385 | Mon | 09842 00100 36684 ... 95662 94776 36646 | MFSK-16/20Bd | (AB-GRC)    |
| XPA2 | 23-3 | 0950 | 17451 | Mon | 09842 00100 36684 ... 95662 94776 36646 | MFSK-16/20Bd | (AB-GRC)    |
| XPA2 | 23-3 | 1600 | 12163 | Mon | 00828 00187 27180 ... 63949 01796 16152 | MFSK-16/20Bd | (AB/RL-HOL) |
| XPA2 | 23-3 | 1620 | 10863 | Mon | 00828 00187 27180 ... 63949 01796 16152 | MFSK-16/20Bd | (AB/RL-HOL) |
| XPA2 | 23-3 | 1640 | 9363  | Mon | 00828 00187 27180 ... 63949 01796 16152 | MFSK-16/20Bd | (AB/RL-HOL) |
| XPA2 | 24-3 | 1100 | 14639 | Tue | 09055 00140 17448 ... 85032 46385 01432 | MFSK-16/20Bd | (AB)        |
| XPA2 | 24-3 | 1120 | 13539 | Tue | 09055 00140 17448 ... 85032 46385 01432 | MFSK-16/20Bd | (AB)        |
| XPA2 | 24-3 | 1140 | 12139 | Tue | 09055 00140 17448 ... 85032 46385 01432 | MFSK-16/20Bd | (AB)        |
| XPA2 | 24-3 | 1700 | 17464 | Tue | 01400 00098 95537 ... 55823 06475 46646 | MFSK-16/20Bd | (AB)        |
| XPA2 | 24-3 | 1720 | 16203 | Tue | 01400 00098 95537 ... 55823 06475 46646 | MFSK-16/20Bd | (AB)        |
| XPA2 | 24-3 | 1740 | 13931 | Tue | 01400 00098 95537 ... 55823 06475 46646 | MFSK-16/20Bd | (AB)        |
| XPA2 | 25-3 | 0800 | 17459 | Wed | 00444 00415 39816 ... 39664 82576 30430 | MFSK-16/20Bd | (AB-GRC)    |
| XPA2 | 25-3 | 0820 | 18578 | Wed | 00444 00415 39816 ... 39664 82576 30430 | MFSK-16/20Bd | (AB-GRC)    |
| XPA2 | 25-3 | 0840 | 19101 | Wed | 00444 00415 39816 ... 39664 82576 30430 | MFSK-16/20Bd | (AB-GRC)    |
| XPA2 | 25-3 | 0910 | 19456 | Wed | 09842 00100 36684 ... 95662 94776 36646 | MFSK-16/20Bd | (AB-GRC)    |

|      |      |      |       |     |                                         |              |                |
|------|------|------|-------|-----|-----------------------------------------|--------------|----------------|
| XPA2 | 25-3 | 0930 | 18385 | Wed | 09842 00100 36684 ... 95662 94776 36646 | MFSK-16/20Bd | (AB-GRC)       |
| XPA2 | 25-3 | 0950 | 17451 | Wed | 09842 00100 36684 ... 95662 94776 36646 | MFSK-16/20Bd | (AB-GRC)       |
| XPA2 | 25-3 | 1100 | 15861 | Wed | 05088 00001 00000 10140                 | MFSK-16/20Bd | (AB)           |
| XPA2 | 25-3 | 1120 | 14431 | Wed | 05088 00001 00000 10140                 | MFSK-16/20Bd | (AB)           |
| XPA2 | 25-3 | 1140 | 13431 | Wed | 05088 00001 00000 10140                 | MFSK-16/20Bd | (AB)           |
| XPA2 | 25-3 | 1200 | 14956 | Wed | 09736 00238 09664 ... 72809 65564 25637 | MFSK-16/20Bd | (AB)           |
| XPA2 | 25-3 | 1220 | 16356 | Wed | 09736 00238 09664 ... 72809 65564 25637 | MFSK-16/20Bd | (AB)           |
| XPA2 | 25-3 | 1240 | 17456 | Wed | 09736 00238 09664 ... 72809 65564 25637 | MFSK-16/20Bd | (AB)           |
| XPA2 | 26-3 | 0900 | 19426 | Thu | 07189 00001 00000 10140                 | MFSK-16/20Bd | (AB)           |
| XPA2 | 26-3 | 0920 | 18543 | Thu | 07189 00001 00000 10140                 | MFSK-16/20Bd | (AB)           |
| XPA2 | 26-3 | 0940 | 17478 | Thu | 07189 00001 00000 10140                 | MFSK-16/20Bd | (AB)           |
| XPA2 | 26-3 | 1100 | 15861 | Thu | 07189 00001 00000 10140                 | MFSK-16/20Bd | (AB)           |
| XPA2 | 26-3 | 1120 | 14431 | Thu | 07189 00001 00000 10140                 | MFSK-16/20Bd | (AB)           |
| XPA2 | 26-3 | 1140 | 13431 | Thu | 07189 00001 00000 10140                 | MFSK-16/20Bd | (AB/RL)        |
| XPA2 | 26-3 | 1700 | 17464 | Thu | 01400 00098 95537 ... 55823 06475 46646 | MFSK-16/20Bd | (AB)           |
| XPA2 | 26-3 | 1720 | 16203 | Thu | 01400 00098 95537 ... 55823 06475 46646 | MFSK-16/20Bd | (AB)           |
| XPA2 | 26-3 | 1740 | 13931 | Thu | 01400 00098 95537 ... 55823 06475 46646 | MFSK-16/20Bd | (AB)           |
| XPA2 | 27-3 | 1100 | 14639 | Fri | 09055 00140 17448 ... 85032 46385 01432 | MFSK-16/20Bd | (AB/Hiram)     |
| XPA2 | 27-3 | 1120 | 13539 | Fri | 09055 00140 17448 ... 85032 46385 01432 | MFSK-16/20Bd | (AB/Hiram)     |
| XPA2 | 27-3 | 1140 | 12139 | Fri | 09055 00140 17448 ... 85032 46385 01432 | MFSK-16/20Bd | (AB/Hiram)     |
| XPA2 | 27-3 | 1200 | 14956 | Fri | 09736 00238 09664 ... 72809 65564 25637 | MFSK-16/20Bd | (AB/Hiram)     |
| XPA2 | 27-3 | 1220 | 16356 | Fri | 09736 00238 09664 ... 72809 65564 25637 | MFSK-16/20Bd | (AB/Hiram)     |
| XPA2 | 27-3 | 1240 | 17456 | Fri | 09736 00238 09664 ... 72809 65564 25637 | MFSK-16/20Bd | (AB/Hiram)     |
| XPA2 | 28-3 | 0900 | 19426 | Sat | 08031 00001 00000 00140                 | MFSK-16/20Bd | (AB-GRC/Hiram) |
| XPA2 | 28-3 | 0920 | 18543 | Sat | 08031 00001 00000 00140                 | MFSK-16/20Bd | (AB-GRC/Hiram) |
| XPA2 | 28-3 | 0940 | 17478 | Sat | 08031 00001 00000 00140                 | MFSK-16/20Bd | (AB-GRC/Hiram) |
| XPA2 | 28-3 | 1600 | 12163 | Sat | 00828 00187 27180 ... 63949 01796 16152 | MFSK-16/20Bd | (AB)           |
| XPA2 | 28-3 | 1620 | 10863 | Sat | 00828 00187 27180 ... 63949 01796 16152 | MFSK-16/20Bd | (AB)           |
| XPA2 | 28-3 | 1640 | 9363  | Sat | 00828 00187 27180 ... 63949 01796 16152 | MFSK-16/20Bd | (AB)           |
| XPA2 | 30-3 | 0800 | 17459 | Mon | 00444 00415 39816 ... 39664 82576 30430 | MFSK-16/20Bd | (AB-GRC/Hiram) |
| XPA2 | 30-3 | 0820 | 18578 | Mon | 00444 00415 39816 ... 39664 82576 30430 | MFSK-16/20Bd | (AB-GRC/Hiram) |
| XPA2 | 30-3 | 0840 | 19101 | Mon | 00444 00415 39816 ... 39664 82576 30430 | MFSK-16/20Bd | (AB-GRC/Hiram) |
| XPA2 | 30-3 | 0910 | 19456 | Mon | 09685 00001 00000 10140                 | MFSK-16/20Bd | (AB-GRC)       |
| XPA2 | 30-3 | 0930 | 18385 | Mon | 09685 00001 00000 10140                 | MFSK-16/20Bd | (AB-GRC/Hiram) |
| XPA2 | 30-3 | 0950 | 17451 | Mon | 09685 00001 00000 10140                 | MFSK-16/20Bd | (AB-GRC/Hiram) |
| XPA2 | 30-3 | 1600 | 12163 | Mon | 05915 00001 00000 40256                 | MFSK-16/20Bd | (AB/Hiram)     |
| XPA2 | 30-3 | 1620 | 10863 | Mon | 05915 00001 00000 40256                 | MFSK-16/20Bd | (AB/Hiram)     |
| XPA2 | 30-3 | 1640 | 9363  | Mon | 05915 00001 00000 40256                 | MFSK-16/20Bd | (AB/Hiram)     |
| XPA2 | 31-3 | 1100 | 14639 | Tue | 04553 00001 00000 10140                 | MFSK-16/20Bd | (AB)           |
| XPA2 | 31-3 | 1120 | 13539 | Tue | 04553 00001 00000 10140                 | MFSK-16/20Bd | (AB)           |
| XPA2 | 31-3 | 1140 | 12139 | Tue | 04553 00001 00000 10140                 | MFSK-16/20Bd | (AB)           |
| XPA2 | 31-3 | 1700 | 17464 | Tue | 03629 00001 00000 40655                 | MFSK-16/20Bd | (AB)           |
| XPA2 | 31-3 | 1720 | 16203 | Tue | 03629 00001 00000 40655                 | MFSK-16/20Bd | (AB)           |
| XPA2 | 31-3 | 1740 | 13931 | Tue | 03629 00001 00000 40655                 | MFSK-16/20Bd | (AB)           |
| XPB1 | 2-3  | 0600 | 18434 | Mon | Russian intel.                          | MFSK-16      | (AB)           |
| XPB1 | 2-3  | 0610 | 18234 | Mon | Russian intel.                          | MFSK-16      | (AB)           |
| XPB1 | 2-3  | 0620 | 17434 | Mon | Russian intel.                          | MFSK-16      | (AB)           |



|      |      |      |       |     |                |         |      |
|------|------|------|-------|-----|----------------|---------|------|
| XPB1 | 2-3  | 0630 | 16234 | Mon | Russian intel. | MFSK-16 | (AB) |
| XPB1 | 2-3  | 0640 | 15834 | Mon | Russian intel. | MFSK-16 | (AB) |
| XPB1 | 2-3  | 0650 | 14434 | Mon | Russian intel. | MFSK-16 | (AB) |
| XPB1 | 3-3  | 0600 | 18434 | Tue | Russian intel. | MFSK-16 | (AB) |
| XPB1 | 3-3  | 0610 | 18234 | Tue | Russian intel. | MFSK-16 | (AB) |
| XPB1 | 3-3  | 0620 | 17434 | Tue | Russian intel. | MFSK-16 | (AB) |
| XPB1 | 3-3  | 0630 | 16234 | Tue | Russian intel. | MFSK-16 | (AB) |
| XPB1 | 3-3  | 0640 | 15834 | Tue | Russian intel. | MFSK-16 | (AB) |
| XPB1 | 3-3  | 0650 | 14434 | Tue | Russian intel. | MFSK-16 | (AB) |
| XPB1 | 3-3  | 1300 | 20072 | Tue | Russian intel. | MFSK-16 | (AB) |
| XPB1 | 3-3  | 1310 | 19572 | Tue | Russian intel. | MFSK-16 | (AB) |
| XPB1 | 3-3  | 1320 | 18372 | Tue | Russian intel. | MFSK-16 | (AB) |
| XPB1 | 3-3  | 1330 | 17472 | Tue | Russian intel. | MFSK-16 | (AB) |
| XPB1 | 3-3  | 1340 | 16272 | Tue | Russian intel. | MFSK-16 | (AB) |
| XPB1 | 3-3  | 1350 | 14972 | Tue | Russian intel. | MFSK-16 | (AB) |
| XPB1 | 5-3  | 0600 | 18434 | Thu | Russian intel. | MFSK-16 | (AB) |
| XPB1 | 5-3  | 0610 | 18234 | Thu | Russian intel. | MFSK-16 | (AB) |
| XPB1 | 5-3  | 0620 | 17434 | Thu | Russian intel. | MFSK-16 | (AB) |
| XPB1 | 5-3  | 0630 | 16234 | Thu | Russian intel. | MFSK-16 | (AB) |
| XPB1 | 5-3  | 0640 | 15834 | Thu | Russian intel. | MFSK-16 | (AB) |
| XPB1 | 5-3  | 0650 | 14434 | Thu | Russian intel. | MFSK-16 | (AB) |
| XPB1 | 6-3  | 0600 | 18434 | Fri | Russian intel. | MFSK-16 | (AB) |
| XPB1 | 6-3  | 0610 | 18234 | Fri | Russian intel. | MFSK-16 | (AB) |
| XPB1 | 6-3  | 0620 | 17434 | Fri | Russian intel. | MFSK-16 | (AB) |
| XPB1 | 6-3  | 0630 | 16234 | Fri | Russian intel. | MFSK-16 | (AB) |
| XPB1 | 6-3  | 0640 | 15834 | Fri | Russian intel. | MFSK-16 | (AB) |
| XPB1 | 6-3  | 0650 | 14434 | Fri | Russian intel. | MFSK-16 | (AB) |
| XPB1 | 6-3  | 1300 | 20072 | Fri | Russian intel. | MFSK-16 | (AB) |
| XPB1 | 6-3  | 1310 | 19572 | Fri | Russian intel. | MFSK-16 | (AB) |
| XPB1 | 6-3  | 1320 | 18372 | Fri | Russian intel. | MFSK-16 | (AB) |
| XPB1 | 6-3  | 1330 | 17472 | Fri | Russian intel. | MFSK-16 | (AB) |
| XPB1 | 6-3  | 1340 | 16272 | Fri | Russian intel. | MFSK-16 | (AB) |
| XPB1 | 6-3  | 1350 | 14972 | Fri | Russian intel. | MFSK-16 | (AB) |
| XPB1 | 9-3  | 0600 | 18434 | Mon | Russian intel. | MFSK-16 | (AB) |
| XPB1 | 9-3  | 0610 | 18234 | Mon | Russian intel. | MFSK-16 | (AB) |
| XPB1 | 9-3  | 0620 | 17434 | Mon | Russian intel. | MFSK-16 | (AB) |
| XPB1 | 9-3  | 0630 | 16234 | Mon | Russian intel. | MFSK-16 | (AB) |
| XPB1 | 9-3  | 0640 | 15834 | Mon | Russian intel. | MFSK-16 | (AB) |
| XPB1 | 9-3  | 0650 | 14434 | Mon | Russian intel. | MFSK-16 | (AB) |
| XPB1 | 10-3 | 0600 | 18434 | Tue | Russian intel. | MFSK-16 | (AB) |
| XPB1 | 10-3 | 0610 | 18234 | Tue | Russian intel. | MFSK-16 | (AB) |
| XPB1 | 10-3 | 0620 | 17434 | Tue | Russian intel. | MFSK-16 | (AB) |
| XPB1 | 10-3 | 0630 | 16234 | Tue | Russian intel. | MFSK-16 | (AB) |
| XPB1 | 10-3 | 0640 | 15834 | Tue | Russian intel. | MFSK-16 | (AB) |
| XPB1 | 10-3 | 0650 | 14434 | Tue | Russian intel. | MFSK-16 | (AB) |
| XPB1 | 10-3 | 1300 | 20072 | Tue | Russian intel. | MFSK-16 | (AB) |
| XPB1 | 10-3 | 1310 | 19572 | Tue | Russian intel. | MFSK-16 | (AB) |

|      |      |      |       |     |                |         |         |
|------|------|------|-------|-----|----------------|---------|---------|
| XPB1 | 10-3 | 1320 | 18372 | Tue | Russian intel. | MFSK-16 | (AB)    |
| XPB1 | 10-3 | 1330 | 17472 | Tue | Russian intel. | MFSK-16 | (AB)    |
| XPB1 | 10-3 | 1340 | 16272 | Tue | Russian intel. | MFSK-16 | (AB)    |
| XPB1 | 10-3 | 1350 | 14972 | Tue | Russian intel. | MFSK-16 | (AB)    |
| XPB1 | 12-3 | 0600 | 18434 | Thu | Russian intel. | MFSK-16 | (AB)    |
| XPB1 | 12-3 | 0610 | 18234 | Thu | Russian intel. | MFSK-16 | (AB)    |
| XPB1 | 12-3 | 0620 | 17434 | Thu | Russian intel. | MFSK-16 | (AB)    |
| XPB1 | 12-3 | 0630 | 16234 | Thu | Russian intel. | MFSK-16 | (AB)    |
| XPB1 | 12-3 | 0640 | 15834 | Thu | Russian intel. | MFSK-16 | (AB)    |
| XPB1 | 12-3 | 0650 | 14434 | Thu | Russian intel. | MFSK-16 | (AB)    |
| XPB1 | 13-3 | 0600 | 18434 | Fri | Russian intel. | MFSK-16 | (AB)    |
| XPB1 | 13-3 | 0610 | 18234 | Fri | Russian intel. | MFSK-16 | (AB)    |
| XPB1 | 13-3 | 0620 | 17434 | Fri | Russian intel. | MFSK-16 | (AB)    |
| XPB1 | 13-3 | 0630 | 16234 | Fri | Russian intel. | MFSK-16 | (AB)    |
| XPB1 | 13-3 | 0640 | 15834 | Fri | Russian intel. | MFSK-16 | (AB)    |
| XPB1 | 13-3 | 0650 | 14434 | Fri | Russian intel. | MFSK-16 | (AB)    |
| XPB1 | 13-3 | 1300 | 20072 | Fri | Russian intel. | MFSK-16 | (AB/RL) |
| XPB1 | 13-3 | 1310 | 19572 | Fri | Russian intel. | MFSK-16 | (AB/RL) |
| XPB1 | 13-3 | 1320 | 18372 | Fri | Russian intel. | MFSK-16 | (AB)    |
| XPB1 | 13-3 | 1330 | 17472 | Fri | Russian intel. | MFSK-16 | (AB)    |
| XPB1 | 13-3 | 1340 | 16272 | Fri | Russian intel. | MFSK-16 | (AB)    |
| XPB1 | 13-3 | 1350 | 14972 | Fri | Russian intel. | MFSK-16 | (AB)    |
| XPB1 | 16-3 | 0600 | 18434 | Mon | Russian intel. | MFSK-16 | (AB)    |
| XPB1 | 16-3 | 0610 | 18234 | Mon | Russian intel. | MFSK-16 | (AB)    |
| XPB1 | 16-3 | 0620 | 17434 | Mon | Russian intel. | MFSK-16 | (AB)    |
| XPB1 | 16-3 | 0630 | 16234 | Mon | Russian intel. | MFSK-16 | (AB)    |
| XPB1 | 16-3 | 0640 | 15834 | Mon | Russian intel. | MFSK-16 | (AB)    |
| XPB1 | 16-3 | 0650 | 14434 | Mon | Russian intel. | MFSK-16 | (AB)    |
| XPB1 | 17-3 | 0600 | 18434 | Tue | Russian intel. | MFSK-16 | (AB)    |
| XPB1 | 17-3 | 0610 | 18234 | Tue | Russian intel. | MFSK-16 | (AB)    |
| XPB1 | 17-3 | 0620 | 17434 | Tue | Russian intel. | MFSK-16 | (AB)    |
| XPB1 | 17-3 | 0630 | 16234 | Tue | Russian intel. | MFSK-16 | (AB)    |
| XPB1 | 17-3 | 0640 | 15834 | Tue | Russian intel. | MFSK-16 | (AB)    |
| XPB1 | 17-3 | 0650 | 14434 | Tue | Russian intel. | MFSK-16 | (AB)    |
| XPB1 | 17-3 | 1300 | 20072 | Tue | Russian intel. | MFSK-16 | (AB)    |
| XPB1 | 17-3 | 1310 | 19572 | Tue | Russian intel. | MFSK-16 | (AB)    |
| XPB1 | 17-3 | 1320 | 18372 | Tue | Russian intel. | MFSK-16 | (AB)    |
| XPB1 | 17-3 | 1330 | 17472 | Tue | Russian intel. | MFSK-16 | (AB)    |
| XPB1 | 17-3 | 1340 | 16272 | Tue | Russian intel. | MFSK-16 | (AB)    |
| XPB1 | 17-3 | 1350 | 14972 | Tue | Russian intel. | MFSK-16 | (AB)    |
| XPB1 | 19-3 | 0600 | 18434 | Thu | Russian intel. | MFSK-16 | (AB)    |
| XPB1 | 19-3 | 0610 | 18234 | Thu | Russian intel. | MFSK-16 | (AB)    |
| XPB1 | 19-3 | 0620 | 17434 | Thu | Russian intel. | MFSK-16 | (AB)    |
| XPB1 | 19-3 | 0630 | 16234 | Thu | Russian intel. | MFSK-16 | (AB)    |
| XPB1 | 19-3 | 0640 | 15834 | Thu | Russian intel. | MFSK-16 | (AB)    |
| XPB1 | 19-3 | 0650 | 14434 | Thu | Russian intel. | MFSK-16 | (AB)    |
| XPB1 | 20-3 | 0600 | 18434 | Fri | Russian intel. | MFSK-16 | (AB)    |

|      |      |      |       |     |                |         |      |
|------|------|------|-------|-----|----------------|---------|------|
| XPB1 | 20-3 | 0610 | 18234 | Fri | Russian intel. | MFSK-16 | (AB) |
| XPB1 | 20-3 | 0620 | 17434 | Fri | Russian intel. | MFSK-16 | (AB) |
| XPB1 | 20-3 | 0630 | 16234 | Fri | Russian intel. | MFSK-16 | (AB) |
| XPB1 | 20-3 | 0640 | 15834 | Fri | Russian intel. | MFSK-16 | (AB) |
| XPB1 | 20-3 | 0650 | 14434 | Fri | Russian intel. | MFSK-16 | (AB) |
| XPB1 | 20-3 | 1300 | 20072 | Fri | Russian intel. | MFSK-16 | (AB) |
| XPB1 | 20-3 | 1310 | 19572 | Fri | Russian intel. | MFSK-16 | (AB) |
| XPB1 | 20-3 | 1320 | 18372 | Fri | Russian intel. | MFSK-16 | (AB) |
| XPB1 | 20-3 | 1330 | 17472 | Fri | Russian intel. | MFSK-16 | (AB) |
| XPB1 | 20-3 | 1340 | 16272 | Fri | Russian intel. | MFSK-16 | (AB) |
| XPB1 | 20-3 | 1350 | 14972 | Fri | Russian intel. | MFSK-16 | (AB) |
| XPB1 | 23-3 | 0600 | 18434 | Mon | Russian intel. | MFSK-16 | (AB) |
| XPB1 | 23-3 | 0610 | 18234 | Mon | Russian intel. | MFSK-16 | (AB) |
| XPB1 | 23-3 | 0620 | 17434 | Mon | Russian intel. | MFSK-16 | (AB) |
| XPB1 | 23-3 | 0630 | 16234 | Mon | Russian intel. | MFSK-16 | (AB) |
| XPB1 | 23-3 | 0640 | 15834 | Mon | Russian intel. | MFSK-16 | (AB) |
| XPB1 | 23-3 | 0650 | 14434 | Mon | Russian intel. | MFSK-16 | (AB) |
| XPB1 | 24-3 | 0600 | 18434 | Tue | Russian intel. | MFSK-16 | (AB) |
| XPB1 | 24-3 | 0610 | 18234 | Tue | Russian intel. | MFSK-16 | (AB) |
| XPB1 | 24-3 | 0620 | 17434 | Tue | Russian intel. | MFSK-16 | (AB) |
| XPB1 | 24-3 | 0630 | 16234 | Tue | Russian intel. | MFSK-16 | (AB) |
| XPB1 | 24-3 | 0640 | 15834 | Tue | Russian intel. | MFSK-16 | (AB) |
| XPB1 | 24-3 | 0650 | 14434 | Tue | Russian intel. | MFSK-16 | (AB) |
| XPB1 | 24-3 | 1300 | 20072 | Tue | Russian intel. | MFSK-16 | (AB) |
| XPB1 | 24-3 | 1310 | 19572 | Tue | Russian intel. | MFSK-16 | (AB) |
| XPB1 | 24-3 | 1320 | 18372 | Tue | Russian intel. | MFSK-16 | (AB) |
| XPB1 | 24-3 | 1330 | 17472 | Tue | Russian intel. | MFSK-16 | (AB) |
| XPB1 | 24-3 | 1340 | 16272 | Tue | Russian intel. | MFSK-16 | (AB) |
| XPB1 | 24-3 | 1350 | 14972 | Tue | Russian intel. | MFSK-16 | (AB) |
| XPB1 | 26-3 | 0600 | 18434 | Thu | Russian intel. | MFSK-16 | (AB) |
| XPB1 | 26-3 | 0610 | 18234 | Thu | Russian intel. | MFSK-16 | (AB) |
| XPB1 | 26-3 | 0620 | 17434 | Thu | Russian intel. | MFSK-16 | (AB) |
| XPB1 | 26-3 | 0630 | 16234 | Thu | Russian intel. | MFSK-16 | (AB) |
| XPB1 | 26-3 | 0640 | 15834 | Thu | Russian intel. | MFSK-16 | (AB) |
| XPB1 | 26-3 | 0650 | 14434 | Thu | Russian intel. | MFSK-16 | (AB) |
| XPB1 | 27-3 | 0600 | 18434 | Fri | Russian intel. | MFSK-16 | (AB) |
| XPB1 | 27-3 | 0610 | 18234 | Fri | Russian intel. | MFSK-16 | (AB) |
| XPB1 | 27-3 | 0620 | 17434 | Fri | Russian intel. | MFSK-16 | (AB) |
| XPB1 | 27-3 | 0630 | 16234 | Fri | Russian intel. | MFSK-16 | (AB) |
| XPB1 | 27-3 | 0640 | 15834 | Fri | Russian intel. | MFSK-16 | (AB) |
| XPB1 | 27-3 | 0650 | 14434 | Fri | Russian intel. | MFSK-16 | (AB) |
| XPB1 | 27-3 | 1300 | 20072 | Fri | Russian intel. | MFSK-16 | (AB) |
| XPB1 | 27-3 | 1310 | 19572 | Fri | Russian intel. | MFSK-16 | (AB) |
| XPB1 | 27-3 | 1320 | 18372 | Fri | Russian intel. | MFSK-16 | (AB) |
| XPB1 | 27-3 | 1330 | 17472 | Fri | Russian intel. | MFSK-16 | (AB) |
| XPB1 | 27-3 | 1340 | 16272 | Fri | Russian intel. | MFSK-16 | (AB) |
| XPB1 | 27-3 | 1350 | 14972 | Fri | Russian intel. | MFSK-16 | (AB) |

|             |      |      |       |     |                |         |      |
|-------------|------|------|-------|-----|----------------|---------|------|
| <b>XPB1</b> | 30-3 | 0600 | 18434 | Mon | Russian intel. | MFSK-16 | (AB) |
| <b>XPB1</b> | 30-3 | 0610 | 18234 | Mon | Russian intel. | MFSK-16 | (AB) |
| <b>XPB1</b> | 30-3 | 0620 | 17434 | Mon | Russian intel. | MFSK-16 | (AB) |
| <b>XPB1</b> | 30-3 | 0630 | 16234 | Mon | Russian intel. | MFSK-16 | (AB) |
| <b>XPB1</b> | 30-3 | 0640 | 15834 | Mon | Russian intel. | MFSK-16 | (AB) |
| <b>XPB1</b> | 30-3 | 0650 | 14434 | Mon | Russian intel. | MFSK-16 | (AB) |
| <b>XPB1</b> | 31-3 | 0600 | 18434 | Tue | Russian intel. | MFSK-16 | (AB) |
| <b>XPB1</b> | 31-3 | 0610 | 18234 | Tue | Russian intel. | MFSK-16 | (AB) |
| <b>XPB1</b> | 31-3 | 0620 | 17434 | Tue | Russian intel. | MFSK-16 | (AB) |
| <b>XPB1</b> | 31-3 | 0630 | 16234 | Tue | Russian intel. | MFSK-16 | (AB) |
| <b>XPB1</b> | 31-3 | 0640 | 15834 | Tue | Russian intel. | MFSK-16 | (AB) |
| <b>XPB1</b> | 31-3 | 0650 | 14434 | Tue | Russian intel. | MFSK-16 | (AB) |
| <b>XPB1</b> | 31-3 | 1300 | 20072 | Tue | Russian intel. | MFSK-16 | (AB) |
| <b>XPB1</b> | 31-3 | 1310 | 19572 | Tue | Russian intel. | MFSK-16 | (AB) |
| <b>XPB1</b> | 31-3 | 1320 | 18372 | Tue | Russian intel. | MFSK-16 | (AB) |
| <b>XPB1</b> | 31-3 | 1330 | 17472 | Tue | Russian intel. | MFSK-16 | (AB) |
| <b>XPB1</b> | 31-3 | 1340 | 16272 | Tue | Russian intel. | MFSK-16 | (AB) |
| <b>XPB1</b> | 31-3 | 1350 | 14972 | Tue | Russian intel. | MFSK-16 | (AB) |

| <b>F01</b>  | <b>26-3</b> | <b>0230</b> | <b>13370</b> | <b>Thu</b> | <b>05251 00000 00000 +++++ 8m TX</b>                                                                                                         | <b>FSK 200/500</b> | <b>(PY)</b> |
|-------------|-------------|-------------|--------------|------------|----------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-------------|
| <b>F01</b>  | 26-3        | 0240        | 11538        | Thu        | 05251 00000 00000 +++++ modulation ended after 3m30s                                                                                         | FSK 200/500        | (PY)        |
| <b>F06</b>  | 18-3        | 0831        | 9300         | Wed        | Active 6m30s transmission (waterfall only)                                                                                                   | FSK 200/1000       | (PY)        |
| <b>F06</b>  | 24-3        | 1400        | 19948        | Tue        | 11166 10064 32147 24002 00749                                                                                                                | FSK 200/1000       | (PY)        |
| <b>F06</b>  | 24-3        | 1410        | 17516        | Tue        | 11166 10064 32147 24002 00749                                                                                                                | FSK 200/1000       | (PY)        |
| <b>F06</b>  | 24-3        | 1420        | 15731        | Tue        | 11166 10064 32147 24002 00749                                                                                                                | FSK 200/1000       | (PY)        |
| <b>F06</b>  | 26-3        | 0245        | 11538        | Thu        | F06 500Hz shift, 11100 00209 16387 26326 00049 00000 00000 00000 00000 in-<br>terruptions in modulation, ended on modulation issues at 0249z | FSK 200/500        | (PY)        |
| <b>F06a</b> | 26-2        | 0840        | 5089         | Thu        | File_KI79993.002 (1831 bytes). Header: 11100 79993 73426 26002 02969                                                                         | FSK 200/1000       | (PY)        |
| <b>F06a</b> | 26-2        | 0850        | 7337         | Thu        | File_KI79993.002 (1831 bytes). Header: 11100 79993 73426 26002 02969                                                                         | FSK 200/1000       | (PY)        |
| <b>F06a</b> | 26-2        | 0900        | 9481         | Thu        | File_KI79993.002 (1831 bytes). Header: 11100 79993 73426 26002 02969                                                                         | FSK 200/1000       | (PY)        |
| <b>F06a</b> | 7-3         | 0800        | 16350        | Sat        | File 42402 (1422 bytes, binary contents)                                                                                                     | FSK 200/1000       | (PY)        |
| <b>F06a</b> | 7-3         | 0815        | 18445        | Sat        | File 42402 (1422 bytes, binary contents)                                                                                                     | FSK 200/1000       | (PY)        |
| <b>F06a</b> | 7-3         | 0830        | 20381        | Sat        | File 42402 (1422 bytes, binary contents)                                                                                                     | FSK 200/1000       | (PY)        |
| <b>F06a</b> | 25-3        | 0100        | 17532        | Wed        | Active                                                                                                                                       | FSK 200/1000       | (PY)        |
| <b>F06a</b> | 25-3        | 0115        | 16351        | Wed        | modulation cut off mid-message after 8m                                                                                                      | FSK 200/1000       | (PY)        |
| <b>F06a</b> | 26-3        | 0106        | 17532        | Thu        | late start, 6m TX                                                                                                                            | FSK 200/1000       | (PY)        |
| <b>F06a</b> | 26-3        | 0115        | 16351        | Thu        | File ZFD_099 (1843 bytes) 44400 09501 00000 25099 00003, 6m TX                                                                               | FSK 200/1000       | (PY)        |
| <b>F06a</b> | 26-3        | 0125        | 14428        | Thu        | File ZFD_099 (1843 bytes) 44400 09501 00000 25099 00003, 6m TX                                                                               | FSK 200/1000       | (PY)        |



## CONTRIBUTORS

|        |                                             |
|--------|---------------------------------------------|
| AB     | Ary Boender, Netherlands                    |
| AB-BER | Ary Boender via remote rx Bermuda           |
| AB-FIN | Ary Boender via remote rx Finland           |
| AB-GRC | Ary Boender via remote rx Greece            |
| AB-HNG | Ary Boender via remote rx Hungary           |
| AB-I   | Ary Boender via remote rx Italy             |
| AB-J   | Ary Boender via remote rx Japan             |
| AB-POL | Ary Boender via remote rx Poland            |
| AB-QAT | Ary Boender via remote rx Qatar             |
| Anon   | Anonymous                                   |
| Dan    | Daniel LU5EMM, Argentina                    |
| EW     | Eddy Waters, Australia                      |
| F4LKC  | F4LKC Frank, France                         |
| FD     | Full Day Waterfall, University Twente SDR   |
| Fspy   | Feline Spy SWL                              |
| Hiram  | Hiram, W. Europe                            |
| HK     | Hiroyuki Komatsubara, Japan                 |
| JPL    | JPL, NB, Canada (and various remote rx)     |
| Lac    | Lazycrypt                                   |
| Moon   | Moonlight (Dave AU)                         |
| Pille  | Pille                                       |
| PY     | Pierre Ynard, France and via remote rx      |
| qsr711 | QSR711                                      |
| RL     | Roberto Landolpho, Brazil                   |
| RL-HOL | Roberto Landolpho via remote rx Netherlands |
| RO     | Rando One, Sweden                           |
| Subilo | Subilo                                      |
| T101   | RadiotehnikaT101 via Priyom                 |
| TM     | Time Machine                                |

## LIST OF ACTIVE STATIONS

### Prefixes

|       |                                                                                            |
|-------|--------------------------------------------------------------------------------------------|
| E     | English language                                                                           |
| F     | FSK (Frequency Shift Keying) modes                                                         |
| G     | German language                                                                            |
| HM    | Hybrid modes                                                                               |
| M(C)  | Morse code (Chinese)                                                                       |
| P     | PSK modes. QPSK (Quadrature Phase Shift Keying) and BPSK (Binary Phase-Shift keying) modes |
| Q     | 4+4 QPSK mode                                                                              |
| S     | Slavic languages                                                                           |
| SK    | Various modes used by Cuba, incl. (B)PSK, WinDRM                                           |
| UM(C) | Unid Morse station (Chinese)                                                               |
| V     | Voice broadcasts in other languages                                                        |
| VC    | Voice Chinese                                                                              |
| X     | MFSK modes                                                                                 |

### Notes :

There is no solid proof that the mentioned operators are correct.

Russian G06, V06 and other variants are not in the list but are occasionally used for exercises

| Code        | Description                                                     | Country | Counterpart                                          | Operator             |
|-------------|-----------------------------------------------------------------|---------|------------------------------------------------------|----------------------|
| <b>E06</b>  | 3-fig id, OM/EE 00000                                           | RUS     | E06, S06, M14, F01, F06, F06a                        | Russian intelligence |
| <b>E06a</b> | 3-fig id, 2 group commencing with 11111                         | RUS     | E06, S06, M14, F01, F06, F06a                        | Russian intelligence |
| <b>E06b</b> | 3-fig id with 5FG group in call, 2 msgs                         | RUS     | E06, S06, M14, F01, F06, F06a                        | Russian intelligence |
| <b>E07</b>  | 3-fig id, OM/EE 000 000                                         | RUS     | E07, V07, V07F, M12, F07, P07, XPA1, XPA2, XPB1, X-- | Russian intelligence |
| <b>E07a</b> | Null msg format. Nnn nnn nnn 000 repeated 20 mins later         | RUS     | E07, V07, V07F, M12, F07, P07, XPA1, XPA2, XPB1, X-- | Russian intelligence |
| <b>E11</b>  | nnn Oblique 00 Out                                              | POL     | E11, E11a, S11a, F03, P03                            | Agencja Wywiadu      |
| <b>E11a</b> | E11 with message                                                | POL     | E11, E11a, S11a, F03, P03                            | Agencja Wywiadu      |
| <b>E25</b>  | Arabic music, 3FGs call, 4FGs, 9450 kHz                         | EGY     | E25, E25a, E25b                                      | GID                  |
| <b>E25a</b> | E25 but 3FG 3FG 2FG 2FG 2FG call                                | EGY     | E25, E25a, E25b                                      | GID                  |
| <b>E25b</b> | Arab message; callup in English                                 | EGY     | E25, E25a, E25b                                      | GID                  |
| <b>F01</b>  | FSK/ITA2 200Bd/500Hz                                            | RUS     | E06, S06, M14, F01, F06, F06a                        | Russian Diplo/Intel. |
| <b>F02</b>  | MFSK-4 150Bd/4000Hz (12kHz BW)                                  | RUS     |                                                      | Unid Russian net.    |
| <b>F03i</b> | FSK-2 100Bd/800Hz/cf +1200Hz/488-bit period                     | POL     | E11, E11a, S11a, F03, P03                            | Agencja Wywiadu      |
| <b>F03j</b> | FSK-4 100Bd/400Hz/cf +1200Hz/448-bit period                     | POL     | E11, E11a, S11a, F03, P03                            | Agencja Wywiadu      |
| <b>F03l</b> | FSK-2 100Bd/200Hz/cf +700Hz/448-bit period                      | POL     | E11, E11a, S11a, F03, P03                            | Agencja Wywiadu      |
| <b>F06</b>  | FSK 200Bd/1000Hz ACF=288 sending compressed digits              | RUS     | E06, S06, M14, F01, F06, F06a                        | Russian Diplo/Intel. |
| <b>F06a</b> | FSK 200Bd/1000Hz ACF=288 sending uncompressed ASCII files       | RUS     | E06, S06, M14, F01, F06, F06a                        | Russian Diplo/Intel. |
| <b>F07</b>  | 5x16-tone MFSK, 10Bd, 20Hz + BPSK, 250Bd bursts                 | RUS     | E07, V07, V07F, M12, F07, P07, XPA1, XPA2, XPB1, X-- | Russian intelligence |
| <b>HM01</b> | Consists of alternating WinDRM data & V02a repeating sequences. | CUB     |                                                      | DGI                  |
| <b>M01</b>  | 2 tone hand-keyed, ends '000'                                   | RUS     |                                                      | Russian Navy         |
| <b>M01a</b> | End of the month transmission                                   | RUS     |                                                      | Russian Navy         |
| <b>M12</b>  | 5FG, 3 or 4FG DK. Ends with 000 000                             | RUS     | E07, V07, V07F, M12, F07, P07, XPA1, XPA2, XPB1, X-- | Russian intelligence |
| <b>M12a</b> | 3FG DK. 2 Messages. Ends with 000 000                           | RUS     | E07, V07, V07F, M12, F07, P07, XPA1, XPA2, XPB1, X-- | Russian intelligence |
| <b>M14</b>  | Ends 00000 or 5 long dashes                                     | RUS     | E06, S06, M14, F01, F06, F06a                        | Russian intelligence |
| <b>M14a</b> | Dual msg variant                                                | RUS     | E06, S06, M14, F01, F06, F06a                        | Russian intelligence |
| <b>M14b</b> | Rare, added 2nd msg hand keyed                                  | RUS     | E06, S06, M14, F01, F06, F06a                        | Russian intelligence |
| <b>M14c</b> | Rare, dual msg, consecutive id's                                | RUS     | E06, S06, M14, F01, F06, F06a                        | Russian intelligence |
| <b>M14d</b> | 3FG id with 5FG group in call                                   | RUS     | E06, S06, M14, F01, F06, F06a                        |                      |
| <b>M21</b>  | 14 fig msgs. Markers and tracking data                          | RUS     | M21, M41                                             | Russian Air Defense  |
| <b>M22</b>  | 4XZ                                                             | ISR     |                                                      | Israeli Navy         |
| <b>M23</b>  | Letters and/or figures strings in various formats               | F       |                                                      |                      |
| <b>M41</b>  | M21 variant using callsigns and WZD and ABV                     | RUS     | M21, M41                                             | Russian Air Defense  |
| <b>M42</b>  | Various modes                                                   | RUS     |                                                      | Russian Gov/Intel.   |
| <b>M42b</b> | FSK 50/500 (=50= separator)                                     | RUS     |                                                      | Russian Gov/Intel.   |
| <b>M51a</b> | FAV22 transmissions                                             | F       |                                                      | French army          |

|              |                                                                                                                                            |     |                                                      |                       |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------|-----|------------------------------------------------------|-----------------------|
| <b>M51b</b>  | Non-stop 5-character groups                                                                                                                | F   |                                                      | French army           |
| <b>M76</b>   | ABCD de EFGH QTC xx xx = 5FG 3607X RRRRR 201XX NNN                                                                                         |     |                                                      |                       |
| <b>M89</b>   | Markers like V YHXD YHXD YHXD DE SAQC SAQC and 4FG messages. Cut numbers                                                                   | CHN |                                                      | Chinese military      |
| <b>M89v</b>  | M89 voice transmissions                                                                                                                    | CHN |                                                      | Chinese military      |
| <b>M95</b>   | Markers and 4FG messages. Cut numbers. Morse counterpart of V26 and Q26                                                                    | CHN | M95, Q26, V26                                        | Chinese military      |
| <b>MC03</b>  | Tracking data. Various formats                                                                                                             | CHN | VC01                                                 | Chinese Air Defense   |
| <b>MVC03</b> | Morse counterpart of VC03                                                                                                                  | CHN | VC03                                                 | Chinese Air Defense   |
| <b>MX</b>    | Single letter beacons/markers                                                                                                              | RUS |                                                      | Russian military      |
| <b>P03e</b>  | QPSK 100Bd/488-bit period                                                                                                                  | POL | E11, E11a, S11a, F03, P03                            |                       |
| <b>P03f</b>  | QPSK 200Bd/496-bit period                                                                                                                  | POL | E11, E11a, S11a, F03, P03                            |                       |
| <b>P03g</b>  | BPSK 50Bd/464-bit period                                                                                                                   | POL | E11, E11a, S11a, F03, P03                            |                       |
| <b>P03h</b>  | BPSK 100Bd/512-bit period                                                                                                                  | POL | E11, E11a, S11a, F03, P03                            |                       |
| <b>P03i</b>  | BPSK 100Bd/512-bit period                                                                                                                  | POL | E11, E11a, S11a, F03, P03                            |                       |
| <b>P03j</b>  | QPSK 100Bd/504-bit period                                                                                                                  | POL | E11, E11a, S11a, F03, P03                            |                       |
| <b>P03k</b>  | BPSK 100Bd/480-bit period                                                                                                                  | POL | E11, E11a, S11a, F03, P03                            |                       |
| <b>P03l</b>  | QPSK 100Bd/464-bit period                                                                                                                  | POL | E11, E11a, S11a, F03, P03                            |                       |
| <b>P07</b>   | Russian intel. 8-tone OFDM, QSPK, 62.5Bd, 125Hz + BPSK, 250Bd bursts                                                                       | RUS | E07, V07, V07F, M12, F07, P07, XPA1, XPA2, XPB1, X-- | Russian intelligence  |
| <b>Q26</b>   | Digital counterpart of V26 and M95. Mode: 4+4 QPSK 75/3000 LSB and 4+4 QPSK 75/1000 LSB                                                    | CHN | M95, Q26, V26                                        | Chinese military      |
| <b>S06</b>   | 3-fig id, 00000 OM/RR                                                                                                                      | RUS | E06, S06, M14, F01, F06, F06a                        | Russian intelligence  |
| <b>S06b</b>  | 3-fig id, two group (commencing with 11111, stutter)                                                                                       | RUS | E06, S06, M14, F01, F06, F06a                        | Russian intelligence  |
| <b>S06c</b>  | Repeating single group                                                                                                                     | RUS | E06, S06, M14, F01, F06, F06a                        | Russian intelligence  |
| <b>S06e</b>  | 3-fig id, two messages                                                                                                                     | RUS | E06, S06, M14, F01, F06, F06a                        | Russian intelligence  |
| <b>S06f</b>  | 3 group msg, ends 00000                                                                                                                    | RUS | E06, S06, M14, F01, F06, F06a                        | Russian intelligence  |
| <b>S06s</b>  | YL + slow zero's ending                                                                                                                    | UKR | E06, S06, M14, F01, F06, F06a                        | SZRU                  |
| <b>S11a</b>  | nnn Cherta 00 or group count + message. Konets                                                                                             | POL | E11, E11a, S11a, F03, P03                            | Agencja Wywiadu       |
| <b>S28</b>   | Buzzer                                                                                                                                     | RUS |                                                      | Russian military      |
| <b>S30</b>   | Pip                                                                                                                                        | RUS |                                                      | Russian military      |
| <b>S32</b>   | Squeaky Wheel                                                                                                                              | RUS |                                                      | Russian military      |
| <b>UM03</b>  | X2M (probably Chinese). Mode: CW                                                                                                           |     |                                                      |                       |
| <b>UM04</b>  | PROMRCh. Daily transmissions. Format: VVVVV<br>PROMRCh = 27 09 = 1000 0600 0640 0780 1160 ... ABV<br>repeat message = AR. Origin: Bulgaria | BUL |                                                      | Bulgarian military    |
| <b>UM05</b>  | French morse training station                                                                                                              | F   |                                                      |                       |
| <b>UM06</b>  | Various formats morse strings                                                                                                              | F   |                                                      |                       |
| <b>UM10</b>  | 10-minutes net. Callsigns sent for 10 minutes 2x per hour on 2 parallel frequencies. Seldom messages are sent.                             |     |                                                      |                       |
| <b>V07</b>   | Spanish Man 000 000                                                                                                                        | RUS | E07, V07, V07F, M12, F07, P07, XPA1, XPA2, XPB1      | Russian intelligence  |
| <b>V07F</b>  | French version of E07                                                                                                                      | RUS | E07, V07, V07F, M12, F07, P07, XPA1, XPA2, XPB1, X-- | Russian intelligence  |
| <b>V13</b>   | New Star Broadcasting                                                                                                                      | TWN | V13, V13a, V13b                                      | Military Intelligence |
| <b>V13a</b>  | New Star Broadcasting (AM, 5-7 msgs to 5-7 units)                                                                                          | TWN | V13, V13a, V13b                                      | Military Intelligence |
| <b>V13b</b>  | New Star Broadcasting (AM/USB hybrid, intro 2x, 4 msgs to 4 units)                                                                         | TWN | V13, V13a, V13b                                      | Military Intelligence |
| <b>V26</b>   | Voice counterpart of M95 and Q26                                                                                                           | CHN | M95, Q26, V26                                        | Chinese miliary       |
| <b>V32</b>   | Tavajjoh (Attention) followed by strings of figures in Farsi                                                                               |     |                                                      |                       |
| <b>VC01</b>  | Chinese Robot (tracking data)                                                                                                              | CHN | MC03                                                 | Chinese Air Defense   |
| <b>VC02</b>  | Chinese voice morse stations                                                                                                               | CHN |                                                      | Chinese Air Defense   |
| <b>VC03</b>  | 3FG callup and 4FG messages                                                                                                                |     |                                                      |                       |
| <b>VC05</b>  | Chinese time stamp station. Operator calling a 4-figure callsign for four minutes. At the end the actual Beijing time is mentioned.        | CHN |                                                      |                       |
| <b>VR01</b>  | Russian station passing coded messages. Active sinds at least March 2014. Seldom heard                                                     | RUS |                                                      |                       |
| <b>X06</b>   | MFA Moscow. Selcal system for diplomatic missions                                                                                          | RUS |                                                      | Various               |
| <b>XPA1</b>  | MFSK-20/10Bd transmissions                                                                                                                 | RUS |                                                      | Russian intelligence  |
| <b>XPA2</b>  | MFSK-16/20Bd transmissions                                                                                                                 | RUS |                                                      | Russian intelligence  |
| <b>XPB1</b>  | MFSK-16 transmissions                                                                                                                      | RUS |                                                      | Russian intel         |
| <b>XSL</b>   | QPSK 1500Bd. Slot Machine (Japanese Navy Telemetry)                                                                                        | J   |                                                      | Japanese navy         |
| <b>X--</b>   | 21-tone MFSK with 125 Hz tone spacing + 13-tone MFSK with 250 Hz spacing                                                                   | RUA | E07, V07, V07F, M12, F07, P07, XPA1, XPA2, XPB1, X-- | Russian intelligence  |

## APPENDIX

### Morse characters

|   |         |                  |           |                        |            |               |
|---|---------|------------------|-----------|------------------------|------------|---------------|
| A | . -     | 1                | . - - - - | Full stop (period)     | [ . ]      | . - . - . -   |
| B | - . . . | 2                | . . - - - | Comma                  | [ , ]      | - . . . - -   |
| C | - . . . | 3                | . . . - - | Colon                  | [ : ]      | - - - . . .   |
| D | - . .   | 4                | . . . . - | Question mark          | [ ? ]      | . . - - . .   |
| E | .       | 5                | . . . . . | Exclamation mark       | [ ! ]      | - . . . - -   |
| F | . . - . | 6                | - . . . . | Apostrophe             | [ ' ]      | . - - - - .   |
| G | - - .   | 7                | - - . . . | Dash or Hyphen         | [ - ]      | - . . . . -   |
| H | . . . . | 8                | - - - . . | Slash                  | [ / ]      | - . . . -     |
| I | . .     | 9                | - - - - . | Left-hand bracket      | [ ( ]      | - . - - .     |
| J | . - - - | 0                | - - - - - | Right-hand bracket     | [ ) ]      | - . - - . -   |
| K | - . -   |                  |           | Quotation marks        | [ " " ]    | . - . . .     |
| L | . - . . |                  |           | Equals sign            | [ BT = ]   | - . . . -     |
| M | - -     | Accented letters |           | Understood             |            | . . . - .     |
| N | - .     |                  |           | Plus sign              | [ + ]      | . - . - .     |
| O | - - -   |                  |           | Invitation to transmit |            | - . -         |
| P | . - - . |                  |           | Wait                   | [ AS ]     | . - . . .     |
| Q | - - . - |                  |           | End of Transmission    | [ SK, VA ] | . . . - . -   |
| R | . - .   | Ü                | - - - .   | End of message         | [ AR ]     | . - . - .     |
| S | . . .   |                  | . . - -   | Starting signal        |            | - . . . -     |
| T | -       |                  |           | Multiplication sign    | [ × ]      | - . . -       |
| U | . . -   |                  |           | At sign                | [ @ ]      | . - - . - .   |
| V | . . . - |                  |           | Break                  | [ BK ]     | - . . . - . - |
| W | . - -   |                  |           | Ampersand              | [ & ]      | . - . . .     |
| X | - . . - |                  |           |                        |            |               |
| Y | - . - - |                  |           |                        |            |               |
| Z | - - . . |                  |           |                        |            |               |

For Cyrillic morse etc., see also

<http://udxf.nl/Morse-document.pdf>

<http://udxf.nl/Russian.pdf>

Chinese cut numbers  
(M89, M95, MC03, etc)

|   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|
| A | U | 3 | 4 | 5 | 6 | 7 | D | N | T |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |

M08a cut numbers

|   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|
| A | N | D | U | W | R | I | G | M | T |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |

Q26 conversion

|   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|
| F | J | B | P | G | U | Y | M | C | W |
| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |

3<sup>rd</sup> shift Cyrillic RTTY as used by M42b

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Q | W | E | R | T | Y | U | I | O | P | ( | K | V | Z |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | K | = | - | + |

|           |           |          |           |
|-----------|-----------|----------|-----------|
| Word      | E11a      | S11a     | M03       |
| Attention | Attention | Vnimanye |           |
| Slash /   | Oblique   | Cirta    | - . . - . |
| Out       | Out       | Konets   |           |



| Figure | English | French | German | Mandarin | Spanish | Russian  | Arabic  |
|--------|---------|--------|--------|----------|---------|----------|---------|
| 0      | Zero    | Zero   | Null   | Ling     | Cero    | Null     | Sifr    |
| 1      | One     | Un     | Eins   | Yi       | Uno     | Odín     | Wahid   |
| 2      | Two     | Deux   | Zwei   | Er       | Dos     | Dva      | Itzien  |
| 3      | Three   | Trois  | Drei   | San      | Tres    | Tri      | Talata  |
| 4      | Four    | Quatre | Vier   | Si       | Cuatro  | Chety're | Arba`a  |
| 5      | Five    | Cinq   | Fünf   | Wu       | Cinco   | Pyat'    | Xamsa   |
| 6      | Six     | Six    | Sechs  | Liu      | Seis    | Shest'   | Sitta   |
| 7      | Seven   | Sept   | Sieben | Qi       | Siete   | Sem'     | Sab`a   |
| 8      | Eight   | Huit   | Acht   | Ba       | Ocho    | Vósem'   | Tamanya |
| 9      | Nine    | Neuf   | Neun   | Jiu      | Nueve   | Dévyat'  | Tiss`a  |

| Figure | Morse     | Vietnamese | E17z  | S11a       | G06    | E11   |
|--------|-----------|------------|-------|------------|--------|-------|
| 0      | — — — — — | Số không   | Zero  | nul        | Null   | Zero  |
| 1      | . — — — — | Một        | Van   | adinka     | Eins   | One   |
| 2      | . . — — — | Hai        | To    | dvoyka     | Twso   | Two   |
| 3      | . . . — — | Ba         | Fwee  | troyka     | Drei   | Three |
| 4      | . . . . — | Bô'n       | Fo    | chetvyorka | Vier   | Four  |
| 5      | . . . . . | Năm        | Fav   | petyorka   | Funuf  | Fiver |
| 6      | — . . . . | Sáu        | Six   | shest      | Sechs  | Six   |
| 7      | — — . . . | Ba   y     | Seven | syem       | Sieben | Seven |
| 8      | — — — . . | Tám        | Eight | vosyem     | Acht   | Eight |
| 9      | — — — — . | Chín       | Nine  | dyevyet    | Neugen | Niner |
| =      | — . . . — |            |       |            |        |       |
| /      | — . . . . |            |       |            |        |       |

Note: E17z, M03 and M08a are defunct.



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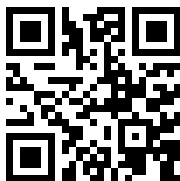
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086 48932 70987 32123 49817 26346 81287 65491 87364 81  
721 75654 55656 12737 72727 72727 91918 63473 67867 76  
723 87629 37677 32612 53498 71296 28756 18276 98716 67  
7269 76329 74698 76857 98678 27681 56781 57681 73648 11  
591 87364 87265 96718 27638 12673 84769 28743 98127 56  
8 63298 75698 27465 87326 49876 28376 81273 98615 66  
67 87432 74328 78674 29867 32867 67867 86786 43266 486  
57 68768 68763 34234 34238 68768 62342 48273 48768 234  
36 98432 32432 86743 43286 43286 43286 43286 43286 40  
743 86743 86743 39867 32867 86743 43286 43286 43243 86  
741 86743 86743 86743 86743 86743 86743 86743 86743 43  
53 98798 98754 98754 98754 98754 29867 67543 67986 86  
76 87698 69876 87698 69876 87612 12341 34867 86798 652  
867 43298 65656 56756 56123 32143 14321 32143 14321 321  
867 87787 58765 76587 58765 76587 58765 76587 58756 765

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